



# CSS PMS MENTOR

ALHUMDULILAH 1000+ SUCCESS STORIES



**FEDERAL PUBLIC SERVICE COMMISSION**



**REVISED SYLLABI FOR  
CSS COMPETITIVE EXAMINATION, CE-  
2016**

**FPSC, F-5/1, AGA KHAN ROAD, ISLAMABAD**

**Updated on: 7<sup>th</sup> July, 2015**



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## **PAPER: ENGLISH ESSAY (100 MARKS)**

Candidates will be required to write one or more Essay in English. A wide choice of topics will be given.

Candidates are expected to reflect comprehensive and research-based knowledge on a selected topic. Candidate's articulation, expression and technical treatment of the style of English Essay writing will be examined.

## **PAPER: ENGLISH (PRECIS & COMPOSITION) (100 MARKS)**

The examination in this subject will be based upon a paper carrying 100 marks to Test the candidate's abilities to handle Precis Writing, Reading Comprehension, Sentence Structuring, Translation, Grammar and Vocabulary, etc.

### **I. Precis Writing (20 marks)**

A careful selected passage with an orientation of generic understanding and enough flexibility for compression shall be given for précising and suggesting an appropriate title. Out of the total 20 marks allocated to this question, 15 shall go to précising the text and 5 to suggesting the title.

### **II. Reading Comprehension (20 marks)**

A carefully selected passage that is rich in substance but not very technical or discipline- specific shall be given,



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followed by five questions, each carrying 4 marks.

III. Grammar and Vocabulary (20 marks)

Correct usage of Tense, Articles, Prepositions, Conjunctions, Punctuation, Phrasal Verbs, Synonyms and Antonyms etc.

IV. Sentence Correction (10 marks)

The sentences shall be given each having a clear structural flaw in terms of grammar or punctuation. The candidates shall be asked to rewrite them with really needed correction only, without making unnecessary alterations. No two or more sentences should have exactly the same problem, and 2-3 sentences shall be based on correction of punctuation marks.

V. Grouping of Words (10 marks)

A random list of twenty words of moderate standard (neither very easy nor utterly unfamiliar) shall be given, to be grouped by the candidates in pairs of those having similar or opposite meaning, as may be clearly directed in the question.

VI. Pairs of Words (10 marks)

Ten pairs shall be given of seemingly similar words with different meanings, generally confused in communication, for bringing out the difference in meaning of any five of them by first explaining them in parenthesis and then using them in sentences.



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## VII. Translation (10 marks)

Ten short Urdu sentences involving structural composition, significant terms and figurative/idiomatic expressions shall be given, to be accurately translated into English.

## SUGGESTED READINGS

- | S.No. | Title                        | Author  |
|-------|------------------------------|---|
| 1.    | English Grammar in Use       | Raymond Murphy (Cambridge University Press).                            |
| 2.    | Practical English Usage      | M.Swan (Oxford University Press).                                       |
| 3.    | The Little, Brown Handbook   | H. Ramsey Flower & Jane Aaron (The Little, Brown & Co; Harper Collins.) |
| 4.    | A University English Grammar | R. Quirk & S. Greenbaum (ELBS; Longmans)                                |
| 5.    | Write Better, Speak Better   | Readers Digest Association.   |
| 6.    | Modern English in Action     | Henry Christ (D.C. Heath & Co.)   |



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## **PAPER: GENERAL SCIENCE & ABILITY (100 MARKS)**

Part-I (General Science) 60 Marks

### I. Physical Sciences

- Constituents and Structure:-Universe, Galaxy, Light Year, Solar System, Sun, Earth, Astronomical System of Units.
- Process of Nature: - Solar and Lunar Eclipses, Rotation and Revolution, Weather Variables (Global Temperature, Pressure, Circulation, Precipitation, Humidity) and Weather Variations.
- Natural Hazards and Disasters: - Earth Quake, Volcanic Eruption, Tsunami, Floods, Avalanche, Travelling Cyclone (Tropical Cyclone, Middle Latitude Cyclone and Tornadoes), Drought, Wildfire, Urban Fire. Disaster Risk Management.
- Energy Resources: - Sources of Energy (Renewable i.e. LED Energy, Solar Energy, Wind Energy and Non-Renewable Energy conservation and its sustainable use.
- Atomic Structure, Chemical Bonding, Electromagnetic Radiations.
- Modern Materials/Chemicals: - Ceramics, Plastics, Semiconductors. Antibiotics, Vaccines, Fertilizers, Pesticides.

### II. Biological Sciences

- The Basis of Life: - Cell Structures and Functions (Subcellular Organelles such as Nucleus, Mitochondria and Ribosomes).
- Biomolecules: - Proteins, Lipids, Carbohydrates and Enzymes.
- Plant and Animal Kingdom: - A brief survey of plant and animal kingdom to pinpoint similarities and diversities in nature.



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- A Brief Account of Human Physiology.
- Common Diseases and Epidemics: - Polio, Diarrhea, Malaria, Hepatitis, Dengue their Causes and Prevention.
- New Model Concept of Producing BIO Fuel Method

### III. Environmental Science

- Environment: - The Atmosphere (Layered Structure and Composition), Hydrosphere (Water Cycle, Major Water Compartments), Biosphere (Major Biomes) and Lithosphere (Minerals and Rocks, Rock Types, Plate Tectonics).
- Atmospheric Pollution: - Types, Sources, Causes and effects of major air pollutants (CO<sub>x</sub>, Particulate Matter, NO<sub>x</sub>, SO<sub>x</sub>, Tropospheric Ozone, Volatile Organic Compounds, Dioxins). Regional and Global air pollution issues (Acid-rain, Ozone Depletion, Greenhouse Effect and Global Warming). International agreements on air pollution control (Montreal Protocol and Kyoto Protocol).
- Water Pollution:- Types, sources, causes and effects of major water pollutants (Synthetic Organic Chemicals, Oxygen Demanding Wastes, Plant Nutrients, Thermal Pollution, Infectious Agents, Sediments, Radioactivity, Heavy Metals and Acids). Drinking water quality and standards.
- Land Pollution: - Solid waste management and disposal.
- Role of Remote Sensing and GIS in Environmental Science.
- Population Planning.

### IV. Food Science

- Concept of Balance Diet: - Vitamins, Carbohydrates,



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Protein, Fats and oil, Minerals, Fiber.

- Quality of Food:- Bioavailability of Nutrients, Appearance, Texture, Flavor, Quality of Packed and Frozen Food, Food Additives, Preservatives and Antioxidants
- Food Deterioration and its Control: - Causes of Food Deterioration, Adulteration, Food Preservation.

## V. Information Technology

- Computer (Hardware & Software Fundamentals); I/O Processing and data storage, Networking & Internet Standards, Application and business Software, Social Media Websites. Information Systems. Fundamentals of artificial intelligence.
- Telecommunications: - Basics of Wireless Communication (Mobile, Satellite, Surveillance and GPS and Fiber Optic etc.

Part-II (General Ability) 40 Marks

## VI. Quantitative Ability/Reasoning

- Basic Mathematical Skills.
- Concepts and ability to reasons quantitatively and solve problems in a quantitative setting.
- Basic Arithmetic, Algebra and Geometry (Average, Ratios, Rates, Percentage, Angles, Triangles, Sets, Remainders, Equations, Symbols, Rounding of Numbers
- Random Sampling

## VII. Logical Reasoning and Analytical Reasoning/Ability

- Logical Reasoning includes the process of using a rational,



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systematic series of steps based on sound mathematical procedures and given statements to arrive at a conclusion

- Analytical Reasoning/Ability includes visualizing, articulating and solving both complex and uncomplicated problems and concepts and making decisions that are sensible based on available information, including demonstration of the ability to apply logical thinking to gathering and analyzing information.

## VIII. Mental Abilities

- Mental Abilities Scales that measures specific constructs such as verbal, mechanical, numerical and social ability.

## SUGGESTED READINGS

S. No.	Title	Authors
1.	Asimov's New Guide to Science 1993	Isaac Asimov
2.	Science Restated: Physics and Chemistry for the Non-Scientist 1970	Harold Gomes Cassidy
3.	Eminent Muslim Scientists 1991	S. Fakhre Alam Naqvi
4.	Exploring Life Science 1975	Walter A. Thurber, Robert E. Kilburn, Peter S. Howell
5.	Exploring Physical Science 1977	Walter A. Thurber, Robert E. Kilburn, Peter S. Howell
6.	Principles of Animal Biology 2011	Lancelot Hogben
7.	The Impact of Science on Society 2005	Isaac Asimov, A. S. a. N.



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A. S. a.

8. Fundamentals of Forensic Science 2010 Max Siegal M.  
Houck, Jay A.

9. Forensic Science  
Investigation 2008 Fundamentals & Anthony J. Bertino

10. Physical Geography 2013 Harm J. de Blij, Peter O.  
Muller, James E. Burt, Joseph A. Mason

11. Physical Geography-Science and Systems of the Human  
Environment 2009 Alan H. Strahler, Arthur N. Strallar.

12. Introduction to Information Technology 2005 I. T. L.  
Education Solutions Limited, Intl.

13. Management Information Systems 2014 Ken Sousa, Effy  
Oz

14. Fundamentals of Telecommunications 2005 Roger L.  
Freeman

15. Basics of Environmental Science 2002 Michael Allaby

16. Food Science 1998 Norman N. Potter, Joseph  
H. Hotchkiss

17. Environmental Science: Systems and Solutions. 5th ed.  
2013 Michael L. McKinney,  
Robert Schoch and Logan Yonavjak

18. Environmental Science: A Global Concern 2012 William  
P. Cunningham, Barbara Woodworth Saigo

Books for Logical Reasoning

19. Logical Reasoning Rob P. Nederpelt, Farouz  
D. Kamareddine

20. Elements of Logical Reasoning Jan Von Plato

21. Reasoning Builder for Admission and Standardized Test  
Staff of Research Education



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- 22. Test of Reasoning Thorpe
- 23. Mental Ability Dr. Lal & Jain
- 24. The Brain Book: Know Your Own Mind and How to Use it  
Edgar Thorpe





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## **PAPER: CURRENT AFFAIRS (100 MARKS)**

Candidates will be expected to display such general knowledge of history, politics and International Affairs, as deemed necessary to interpret current affairs.

### **I. Pakistan's Domestic Affairs (20 marks)**

- Political
- Economic
- Social

### **II. Pakistan's External Affairs (40 marks)**

- Pakistan's relations with its Neighbors (India, China, Afghanistan, Russia)
- Pakistan's relations with the Muslim World (Iran, Saudi Arabia, Indonesia, Turkey)
- Pakistan's relations with the United States
- Pakistan's relations with Regional and International Organizations (UN, SAARC, ECO, OIC, WTO, GCC)

### **III. Global Issues (40 marks)**

- International Security
- International Political Economy
- Human Rights
- Environment: Global Warming, Kyoto Protocol, Copenhagen Accord
- Population: world population trends, world population policies
- Terrorism and Counter Terrorism



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- Global Energy Politics
- Nuclear Proliferation and Nuclear Security
- Nuclear Politics in South Asia
- International Trade (Doha Development Round and Bali Package)
- Cooperation and Competition in Arabian Sea, Indian and Pacific Oceans.
- Millennium Development Goals, Current Status
- Globalization
- Middle East Crisis
- Kashmir Issue
- Palestine Issue

## SUGGESTED READINGS

S.No.	Title	Author
1.	Pakistan Foreign Policy 1947-2005: A Concise History, 2011	Abdul Sattar
2.	Issue in Pakistan's Economy, 2010	Akbar S. Zaidi
3.	Pakistan: A Hard Country, 2012	Anatol Lieven
4.	Government & Politics in South Asia, 6th ed., 2009	Baxter, Malik, Kennedy & Oberst,
5.	Introduction to International Political Economy, 2010	David Balaam & Bradford Dillman
6.	International Organization (Second Edition) 2012	Volker Rittberger, Bernhard Zangl and Andress Kruck
7.	The Age of Deception: Nuclear Diplomacy in Treacherous Times (2011)	Mohamed Elbaradei



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8. International Relations, 2012 Joshua Goldstein
9. World Politics: Trends & Transformation, 2014-2015  
Kegley & Blanton
10. Pakistan Beyond the Crisis, 2011 Maleeha Lodhi
11. Globalization in Question, 2009 Paul Hirst
12. International Political Economy: Interests & Institutions in  
the Global Economy, 2010 Thomas Oatley
13. Politics and Change in the Middle East, 10th Ed., Pearson,  
2012 Andersen, Seibert, and Wagner
14. Eating Grass: The Making of the Pakistani Bomb, (2012)  
Feroz Khan
15. Pakistan and World Affairs Shamshad Ahmad (Edition-  
2015)
16. World Times Magazine ...



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## **PAPER: PAKISTAN AFFAIRS (100 MARKS)**

I. Ideology of Pakistan definition and elucidation, historical aspects: Muslim rule in the Sub-Continent, its downfall and efforts for Renaissance. Movements for reforms-- Shaikh Ahmad Sarhindi, Shah Waliullah, Sayyid Ahmad Shaheed, Aligarh, Deoband, Nadwah, and other educational institutions Sindh Madrassah and Islamia College Peshawar. Ideology of Pakistan in the light of Speeches and statements of Allama Iqbal and Quaid- i Azam Muhammad Ali Jinnah.

II. Land and people of Pakistan----- Geography, Society, Natural resources, Agriculture, Industry and education with reference to characteristics, trends and problems.

III. Pakistan and Changing Regional Apparatus

IV. Nuclear Program of Pakistan, its Safety and Security; International Concerns

V. Regional Cooperation Organizations (SAARC, ECO, SCO) and the Role of Pakistan

VI. Civil-Military Relations in Pakistan

VII. Economic Challenges in Pakistan

VIII. Non-Traditional Security Threats in Pakistan: Role of Non-



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State Actors

IX. Pakistan's Role in the Region

X. The Palestine Issue

XI. Changing Security Dynamics for Pakistan: Challenges to National Security of Pakistan

XII. Political Evolution Since 1971

XIII. Pakistan and US War on Terror

XIV. Foreign Policy of Pakistan Post 9/11

XV. Evolution of Democratic System in Pakistan

XVI. Ethnic Issues and National Integration

XVII. Hydro Politics ; Water Issues in Domestic and Regional Context

XVIII. Pakistan's National Interest

XIX. Challenges to Sovereignty

XX. Pakistan's Energy Problems and their Effects

XXI. Pakistan's Relations with Neighbors excluding India



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XXII. Pakistan and India Relations Since 1947

XXIII. The Kashmir Issue

XXIV. The war in Afghanistan since 1979 and its impact on, and challenges to Pakistan in the Post 2014 era.

XXV. Proxy Wars: Role of External Elements

XXVI. Economic Conditions of Pakistan, the Most Recent Economic Survey, the Previous and Current Budgets, and the Problems and Performance of Major Sectors of Economy.

XXVII. The Recent Constitutional and Legal Debates, the Latest Constitutional Amendments and Important Legislations, Legal Cases and the Role of Higher Courts.

XXVIII. The Prevailing Social Problems of Pakistan and the Strategies to Deal with Them, Poverty, Education, Health and Sanitation.

## SUGGESTED READINGS

S.No. Title Author

1. Federalism and Ethnic Conflict

Regulation in India and Pakistan. Adeney, Katharine. , New York: Palgrave Macmillan, 2007.



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2. Labor, Democratization and Development in India and Pakistan. Candland, Christopher, New York: Routledge, 2007.
3. Perception, Politics and Security in South Asia: The Compound Crisis in 1990. Chari, P.R. et al, New York: Routledge, 2003.
4. The Future of Pakistan. Cohen Stephen P. et al. Washington: Brookings Institute Press, 2011.
5. Frontline Pakistan: The Struggle with Militant Islam. Hussain, Zahid. New York: I.B.Tauris, 2007.
6. Modern South Asia: History, Culture, Political Economy. Jalal, Aisha and Bose, Sugata. New York: Routledge, 1998.
7. Democracy and Authoritarianism in South Asia. Jalal, Aisha, Cambridge: Cambridge University Press, 1995.
8. Conflict Between India and Pakistan: an Encyclopedia. Lyon, Peter. California: ABC-CLIO, 2008.
9. Back to Pakistan: A Fifty Year Journey. Mass, Leslie Noyes. Plymouth: Rowman & Littlefield Publishers, 2011.
10. Judging the State: Courts and Constitutional Politics in Pakistan. Newberg, Paula R. Cambridge: Cambridge University Press, 1995.
11. Pakistan: Manifest Destiny. Qureshi, Atif. London: Epic Press, 2009.
12. Pakistan, America, and the Future of Global Jihad. Riedel, Bruce. Deadly Embrace: Washington: Brookings Institute Press, 2011.
13. Kashmir in Conflict: India, Pakistan and the Unending War.



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Schofield, Victoria.

New York: I.B.Tauria, 2003.

14. Islamic Law and the Law of Armed Conflict: The Armed Conflict in

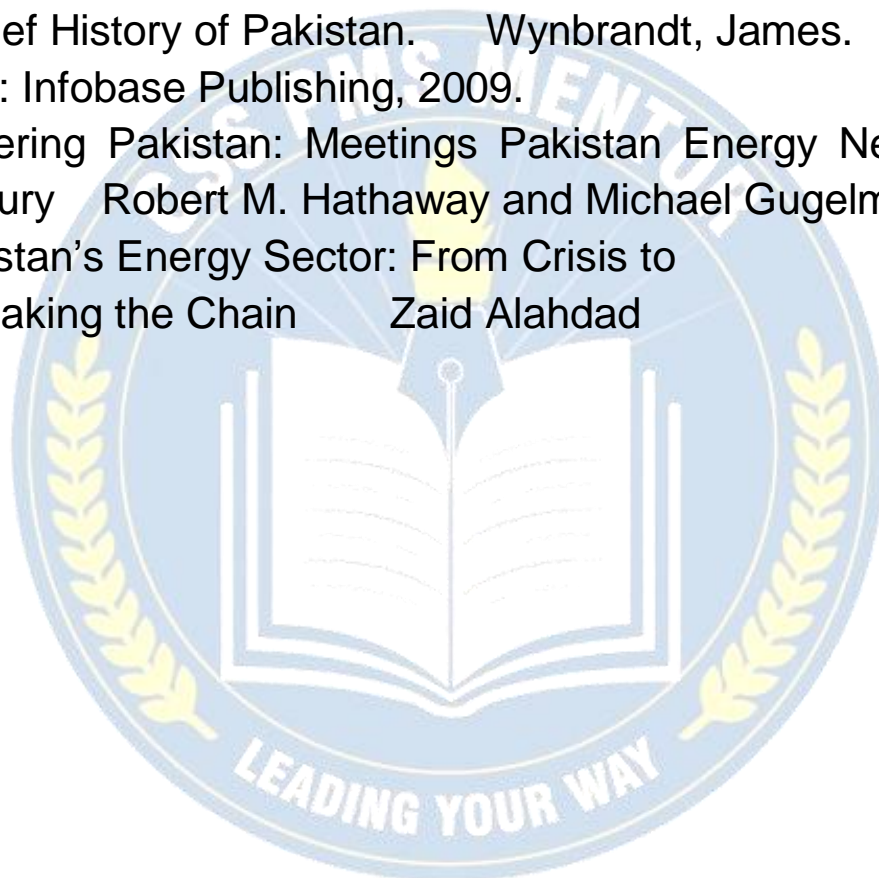
Pakistan. Shah, Niaz A. New York: Routledge, 2011.

15. Making Sense of Pakistan. Shaikh, Farzana. New York: Colombia University Press, 2009.

16. A Brief History of Pakistan. Wynbrandt, James. New York: Infobase Publishing, 2009.

17. Powering Pakistan: Meeting Pakistan Energy Needs in 21st Century Robert M. Hathaway and Michael Gugelman

18. Pakistan's Energy Sector: From Crisis to Crisis-Breaking the Chain Zaid Alahdad





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## PAPER: ISLAMIC STUDIES (100 MARKS)

### I. Introduction to Islam.

- Concept of Islam.
- Importance of Din in Human Life.
- Difference between Din and Religion.
- Distinctive Aspects of Islam.
- Islamic Beliefs & its Impact on Individual & Society and the Fundamental of Islam
- Islamic Worships: Spiritual, Moral and Social Impact.

### II. Study of Sirah of the Prophet Muhammad (PBUH) as Role Model for:-

- Individual
- Diplomat
- Educator
- Military Strategist
- Peace Maker

### III. Human Rights & Status of Woman in Islam.

- Human Rights and Status of Woman in Islam
- Dignity of Men and Women

### IV. Islamic Civilization and Culture:

- Meanings and the Vital Elements
- Role of Civilization in Development of Human Personality and Community
- Characteristics of Islamic Civilization (Tawhid, Self-purification, Dignity of Man, Equality, Social Justice, Moral



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Values, Tolerance, Rule of Law)

## V. Islam and the World.

- Impact of Islamic Civilization on the West and Vice Versa
- The Role of Islam in the Modern World.
- Muslim World and the Contemporary Challenges.
- Rise of Extremism.

## VI. Public Administration and Governance in Islam

- Concept of Public Administration in Islam
- Quranic Guidance on Good Governance
- Concept of Governance and its Applications in the light of Qur'an, Sunnah and Fiqh.
- Governance Structure in Islam (Shura, Legislation, Sources of Islamic Law)
- Governance under Pious Khilafat
- Particular letters of Hazrat Umar (R.A) and Hazrat Ali (R.A) to different Authority.
- Responsibilities of Civil Servants
- System of Accountability(hisbah) in Islam

## VII. Islamic Code of Life.

- Salient Features of Islamic System, Social System, Political System, Economic System, Judicial System, Administrative System,
- Procedure of Ijma and Ijtihad



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## REQUIRED READINGS

Sr. No. Title Author

1. Introduction to Islam Dr. Hamidullah
2. Islam: its meaning and Message Khurshid Ahmad
3. Islam: The Misunderstood Religion Muhammad Qutub
4. Islam at the Cross-roads Muhammad Asad
5. Islam and the Economic Challenge Umer Chapra
6. A brief Survey of Muslim Science and Culture M. Abdur Rahman
7. Administrative Development an Islamic Perspective Muhammad Al-Buraey
8. Quranic Sciences Afzalur Rahman
9. Islamization of Pakistan Zafar Iqbal
10. Islamic Law and Constitution Abul A' la Mawdudi,
11. Insan e Kamil Dr Khalid Alvi
12. Islami Tehzeeb Kay Chund Darakhshan Pehlou Mustafa Sabali
13. Islam Aur Tahzeeb -e -Maghrib Ki Kash Makash Dr Muhammad Ameen,
14. Aurat Maghrib aur Islam Serwat Jamal Asmai
15. Seerat-un-Nabi Vol. I Shibli Nu'mani
16. Islam and Secular Mind Edited by Tarik Jan
17. Khilafat-o-Malookiat Abul A' la Mawdudi,

## RECOMMENDED READING

18. Towards Understanding Islam Abul A' la Mawdudi,
19. Ideals and Realities in Islam Hussain Nasr,
20. Administrative Development; an Islamic Perspective, KP.L. London Alburay Muhammad A.



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21. Arab Administration Hussain Shah
22. The Islamic Republic : Politics, Law and Economy Hassan Dr. S. Farooq
23. Studies in Muslim Political Thoughts and Administration Sherwani, H.K.S.
24. Reconstruction of Religious Thoughts in Islam Allama Iqbal
25. Islamic Political System in the Modern age: Theory and Practice Manzooruddin Ahmad
26. Sovereignty-Modern and Islamic: Ilays Ahmad
27. Islam in Transition: Muslim Perspectives Donohue J, John A. and Esposito L. John (eds)
28. Islam Aik Nazar Main Sadrudin Islahi
29. Islami Nazria e Hayat Khurshid Ahmad
30. Islami Nizam e Zindgi aur us kay Bunyadi Tassworat Abul Aala Maudoodi
31. Jada o Manzil Seyyed Qutb
32. Islam ka Nizam e Hakoomat Maulana Hamid ul Ansari
33. Islami Nizam Dr Yousof al-Qardawi,
34. Bonyadi Haqooq Muhammad Salahuddin
35. Islam Ka Muashi Nizam Justice Taqi Usamani,
36. Tahzeeb o Tamaddon e Islami Rasheed Akhter Nadvi
37. First Principle of Islamic Economics Abul A' la Mawdudi
38. Islamic Civilization Foundations Belief & Principles Abul A' la Mawdudi
39. Worship in Islam Abul A' la Mawdudi
40. Let us be Muslims Khurram Murad
41. Women and Social Justice; an Islamic Paradigm Prof. Dr. Anis Ahmad



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## **PAPER: COMPARATIVE STUDY OF MAJOR RELIGIONS (100 MARKS)**

(Alternative Paper in Lieu of the Compulsory Islamic Studies)

### I. Introduction

- Definition(s) of religion
- Emergence of the study of religion as a discipline
- Theological and academic study of religion
- An overview of religious landscape of the World

### II. Hinduism

- Historical Background

Indus valley civilization, Aryan invasion theory, Vedic Dharma, Brahmanism

- Scriptures:

Smriti: Vedas, Upanishads, Smirti: Manu Smirti, Sutras, Puranas, Great epics: Ramayana, Mahabharata

- Hindu Doctrines:

Dharma, Vedanta, Karma, Transmigration of Souls, Moksha (Liberation)

- Ways to Liberation:

Karma marga (Works/Rituals), Jnana marga (Wisdom), Bhakti marga (Devotion)

- Hindu gods:

Brahma, Vishnu, Shiva, Trimurti, other gods and divinities

- Major Hindu Sects:

Vaishnavism (Manifestation avatars), Saivism (Supreme God &



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Phallic worship), Saktism (Goddess worship)

- Hindu society:

Caste System, Ashramas (Stages of life)

- Hinduism in the Modern World

19th century reform and revival movements, Contemporary Hindu Tendencies and movements

### III. Buddhism

- Historical Background

Life of Gautama Buddha, Formation and spread of Buddhism, Rivalry between Brahmanism and Buddhism

- Scriptures:

Tripitaka: Sutta Pitaka, Vinaya Pitaka, Abhidhamma Pitaka

- Teachings and Doctrines

Three Jewels of Buddhism: Buddha, Dhamma, Sangha, The four noble truths, Eight fold Path

- Buddhist Sects:

Theravadas (Hinayana), Mahayana, other schools and sects

- Buddhism in the Modern world

### IV. Judaism

- A brief history of Jews and Judaism:

From Abraham to Moses, peace be upon them all, From Moses to establishment of Jewish rule, Destruction of Jerusalem and dispersion of Jews in the world,

- Jewish Scriptures:

Tanakh (The Torah, the Prophets, and the Writings), Mishnah and Talmud

- Articles of faith and basic teachings:



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Ten Commandments, The thirteen principles of faith propounded by Moses Maimonides (1138-1204)

- Jewish holidays and festivals:

Yom Kippur (The Day of Atonement), Pesach (Passover), Sukkot (Tabernacles) Purim

- Jewish Worship:

Daily prayer, fasting, Sabbath

- Jewish sects and movements

Orthodox Judaism, Conservative Judaism, Reform Judaism, Zionism, Kabbalah, Hasidism

V. Christianity

- Historical background:

Jewish background of Christianity, Life and of Jesus Christ (Through the Four Gospels), Life and the role of Paul (Through the Letters of Paul), Formation and spread of the Christian Church, Christianization of the Roman Empire, Reform movement

- Scriptures:

The Holy Bible (Old Testament and New Testament)

- Basic Doctrines:

Original Sin, Incarnation of God, Crucifixion and Resurrection of Jesus Christ, Atonement, Trinity

- Christian Sects:

Catholicism, Eastern Orthodoxy, Protestantism

Sub-denominations: Lutherans, Reformed and Presbyterians, Anglicans, Baptists, Methodists, Unitarians

- Christian Festivals and Holidays:

Advent, Christmas, Easter, Pentecost



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- Christian worship and Sacraments  
Baptism, Eucharist, Communion, Lord's Supper, prayer, fasting, psalms, music,
- Christianity in the Modern Times  
Encounter with modernity, modern theological trends, Missionary movement, Dialogue and relationship with other religions

## VI. Islam

- Introduction and Historical Background  
Islamic concept of religion, universality of religion and diversity of shari'ahs, Sirah (Life) of the Holy Prophet Muhammad, peace be upon him, The era of rightly guided caliphs of Islam
- Sacred Scriptures:  
The Holy Quran, Hadith
- Basic Doctrines and Creed:  
Tawhid (Oneness of God), Risalah (Belief in Prophets and finality of the prophet-hood with the Prophet Muhammad), Akhirah (Belief in Hereafter and the final reckoning by Allah the Almighty), Belief in angels, previous scriptures, predestination and human responsibility before God, infallibility of the Quran
- Five Pillars of Islam:  
Utterance of Shahadatayn (To proclaim the Oneness of Allah and that Prophet Muhammad is his messenger, salah (five daily prayers), zakah (compulsory charity), sawm (fasting in the month of Ramadan) and Hajj (pilgrimage to Makkah who can afford travelling to it)
- Other Teachings of Islam  
Equality of mankind, simplicity, spiritual purity and bodily



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hygiene, patience, contentment, moderation, social justice, Jihad, tolerance towards other religions,

- Sects and Schools

Sunnis (mainstream Muslims), Shi'ahs (Special devotion for Hazrat Ali and Family of the Prophet), Khawarij (literalists), Mu'tazilah (rationalists)

- Contemporary Islamic movements and tendencies:

Ikwan al Muslimun (Muslim Brotherhood), Jama'at-i-Islami, Tablighi Jama'at, Salafi movement, Fethullah Gulen movement in Turkey, Iranian revolution, extremist groups.

## SUGGESTED READINGS

- | S.No. | Title   | Author                        |
|-------|---|-------------------------------|
| 1.    | Approaches to the Study of Religion, 1999                 | Peter Connolly (ed.)          |
| 2.    | The Penguin Hand Book of World's Living Religions, 2010.  | John R. Hinnells (ed.)        |
| 3.    | Dunya Kay Baray Mazahib (Major Religions of the World)    | Imadul Hasan Azad Faruqi      |
| 4.    | Hinduism: A Short Introduction, 2006.                     | Klaus K. Klostermaier         |
| 5.    | Exploring Buddhism, , 2012.                               | Christmas Humphreys           |
| 6.    | Judaism: A Short Introduction, 1999.                      | Lavinia and Dan Cohn- Sherbok |
| 7.    | Christianity: An Introduction, 2006.                      | Alister E. McGrath            |
| 8.    | The Messenger: The Meanings of the Life of Muhammad, 2008 | Tariq Ramadan                 |
| 9.    | Ideals and Realities of Islam, 1993.                      | Seyyed Hossein Nasr           |



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10. Towards Understanding Islam, 1992. Syed Abul 'Ala Maududi





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## **PAPER: ACCOUNTANCY & AUDITING (200 MARKS)** **Paper-I (MARKS-100)**

### **(A) Financial Accounting (50 Marks)**

I. Fundamental Accounting Principles, Concepts, Assumptions and Conventions: Nature and Scope of Accounting, Accrual/Matching Concept, Consistency of Presentation and Comparability, True and Fair View, Neutrality, Materiality, Prudence, Completeness, Understandability and Usefulness, Going Concern, and Substance over Form.

II. Accounting Cycle/Process and Financial Statements: Transactions and/or Events, General Journal, General Ledger, Trial Balance (Unadjusted), Adjusting Entries and Adjusted Trial Balance, Work Sheet, Financial Statements including Income Statement, Statement of Financial Position (Balance Sheet), Statement of Cash Flows and Statement of Changes in Equity in accordance with the Financial Reporting Framework as specified by International Accounting Standard Board (IASB) through IFRSs/IASs, and by Securities and Exchange Commission of Pakistan through Companies Ordinance 1984, and Closing and Reversing Entries.

III. Attributes, and Significance of Accounting Information: Attributes of Accounting Information, Information/Reporting Requirements of various Users/Stakeholders of Financial Statements including External (Investors/Shareholders, Creditors, Suppliers, Lenders/Financiers, Government Agencies



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etc.) and Internal (Board of Directors, Partners, Managers, Employees etc.) Stakeholders.

IV. Accounting for common Legal Forms of a Business: Accounting Principles and Financial Statements of Sole-proprietorships, Partnerships and Joint Stock Companies including Banking Companies (Excluding Advanced Topics like Amalgamation, Capital Reduction, Consolidation etc.)

V. Accounting for Associations Not-for-profit, and for Public Sector: Accounting Principles and Financial Statements - of Associations Not-for-profit, and - of Public Sector Entities as per Standardized Financial Reporting Framework provided by International Public Sector Accounting Standards (IPSAS) Board and Practices being followed in the country.

VI. Accounting for Non-current Tangible Assets: Fundamental Concepts and Principles concerning Non-current Assets: Cost; Depreciable Amount; Depreciation; Fair Value; Property, Plant and Equipment; Residual Value; and Useful Life. Depreciation Methods and their Application (as specified by International Accounting Standards Board): Straight-line Method; Reducing Balance Method; Number of Units Produced and basic know-how of other Methods/Techniques being commonly used by the Industry.

VII. Fundamental and Technical Analysis of various Forms of Organizations: Financial Statements' Analysis including both Horizontal (Measuring Change) and Vertical (Ratio) Analysis



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including Liquidity Ratios, Activity Ratios, Debt Ratios, Profitability Ratios and Market Ratios; Technical and Industry Analysis.

## (B) Cost and Managerial Accounting (50 Marks)

VIII. Fundamental Cost Accounting Principles and Concepts: Nature and Scope of Cost and Managerial Accounting; Cost Concepts, Elements and Classification; Underlying Differences among Financial, Cost, and Management Accounting.

IX. Accounting for Material, Labour and Factory Overheads (FOH): Recognition and Valuation Principles for Material Inventory, and Methods to control Material Inventory; Calculation/Measurement and Accounting for Payroll for all forms of Labour, Time Rate and Piece Rate Systems; Commonly used Group Incentive Schemes; Factory Overhead Costs and FOH Rate, Departmentalization of FOH Costs, their Allocation, Apportionment and Reapportionment (Primary and Secondary Distributions), Methods for Secondary Distribution including both Repeated Apportionment/Distribution and Algebraic Method.

X. Costing for Specific Jobs, and Process Costing: Nature of a Specific Job, and Job-order Costing; Process Flow and Process Costing by the use of Cost of Production Report (CPR).

XI. Management Accounting for Planning, Decision-making and Control:



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Budgeting and its Use: Meaning and Nature of a Budget; Major Forms of a Budget including Production and Sales Budget, Cash Budget, Flexible Budgets, Zero-based Budget, Master Budget etc.

Break-even Analysis: Difference between Marginal and Absorption Costing Techniques; Concept of Relevant Cost; Application and Use of Contribution Margin and other Concepts for Planning and Decision-making (under Break-even Analysis)

Variance Analysis: Meaning and Use of Standards and Variances; Major Classification of Variances including Material, Labour and FOH Variances, and their Computation.

## **(A) Auditing (40 Marks)**

### **Paper-II (MARKS-100)**

I. Fundamental Auditing Principles and Concepts: Audit and Auditing, True and Fair View, Audit Assertions, Reasonable Assurance, Documentation and Audit Evidence, Audit Program, Audit Risks, Computer Information Systems (EDP Systems) and Computer-assisted Audit Techniques (CAAT), Inspection, Fraud, Going Concern, Audit Materiality, Misstatement, Governance and Premise, Tests of Control and Substantive Procedures.



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II. Audit Considerations, Dimensions and Conduct: Internal Control System and Internal Audit, Internal VS External Audit, Responsibility for Financial Statements, Audit Planning, Scope of an Audit, Objectives of an Audit, Inherent Limitations of an Audit, Risk Assessment and Management, Internal Audit and Corporate Governance,

Classification of Audit, Qualities of an Auditor, Auditing in Computer Information Systems (EDP Systems) and Computer-assisted Audit Techniques, General Auditing Principles and Techniques commonly applicable to various Types of Undertakings including Merchandizing, Manufacturing, Banking, Insurance, Investment Entities etc., Audit Performance and Audit Completion.

III. Role and Responsibilities of an Auditor: Auditor's professional and legal Rights, Responsibilities & Duties, and Liabilities; Auditor's Opinion and Report, and their classification (Types); - as specified under the Companies Ordinance 1984, and in the handbook of IFAC.

(B) Business Taxation (30 Marks)

IV. Tax Structure, and Fundamental Concepts vis-à-vis Income Tax in Pakistan: Tax Structure in Pakistan; Fundamental Definitions/Terminologies defined under Section 2 of the Income Tax Ordinance 2001.

V. Income Tax and Sales Tax Principles, and their Application:



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Selected Provisions from Income Tax - Income for Tax Purposes [Section 4, 9 & 10], Heads of Income [Section 11], Tax Payable on Taxable Income [First Schedule to the Ordinance], Salary Income and Taxation [Sections 12 to 14], Income from Property [Sections 15 & 16], Income from Business [Sections 18 to 20], Capital Gains [Sections 37 to 38], Income from other sources [Section 39, 40, 101(6), 111], Tax Credits [Sections 61 to 65], Taxation of Individuals, AOPs and Companies [Sections 86, 92, 94], Due Date for Payment of Tax [Section 137], Deduction of Tax at Source/With-holding Tax [Sections 147, 149, 153, 155] and related Income Tax Rules 2002.

Selected Definitions and Provisions from Sales Tax - Scope of Tax [Section 3], Exempt supply [Section 2(11)], Goods [Section 2(12)], Input Tax [2(14)], Registered person [Section 2(25)], Supply [Section 2(33)], Tax [Section 2(34)], Retail Price and Retailer [Section 2(27) & 2(28)], Taxable Activity [Section 2(35)], Taxable Supply [Section 2(41)], Tax Fraction [Section 2(36)], Tax Period [Section 2(43)], Time of Supply [Section 2(44)], and Determination of Tax Liability [Section 7].

(C) Business Studies, and Finance (30 Marks)

VI. Business Studies: Nature and Scope of a Business Entity, Contemporary Challenges posed to a Business; Common Legal Forms of a Business Entity - Sole-proprietorship, Partnership, Joint Stock Company, their Features, Formation and Management; Business Combinations and their Scope; Business Cycle and its Implications; Role of Information



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Technology in Business.

VII. Finance: Meaning, Nature and Scope of Finance, and Financial Management; Common Modes (Types) of Business Finance - Short-, Medium-, and Long-term Financing; Nature and Scope of Financial Markets and Institutions; Features and Classification of Financial Markets; Financial Management Techniques for Decision- making: Time Value of Money, Cost of Capital and Capital Budgeting Techniques.

## SUGGESTED READINGS

S.No.	Title of Books	Author
Accounting Paper - I (100 Marks)		
1	Financial Accounting, and Intermediate Accounting	Kieso, Weygandt and Warfield
2	Fundamentals of Accounting Principles	Wild. Larson. Chiappetta
3	Accounting for Decision-making	Meigs, William and Haka
4	IFRSs / IASs	ICAP / IFAC
5	Principles and practice of Book Keeping and Accounts	Vickery, B.G
6	Financial Accounting	M. Hanif and A. Mukherjee
7	Principles of Accounting, and Advanced Accounting	Sohail Afzal
8	Principles of Accounting, and Advanced Accounting	M.A Ghani and Ejaz



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- 9 Cost Accounting - Planning and control Usry, Hammer, Matz
  - 10 Managerial Accounting Peter C. Brewer, Ray H. Garison, Eric W. Noreen.
  - 11 Cost Accounting Jain and Narang
  - 12 Cost Accounting Nisar ur Din.
- Accounting Paper - II (100 Marks)
- 13 Auditing- Principles and Techniques S. K. Basu
  - 14 Auditing Dicksee, L.R
  - 15 Practical Auditing Spiecer and Pegler
  - 16 Companies Ordinance 1984 SECP
  - 17 Auditing S. K. Millichamp, ELBS
  - 18 Handbook of International Quality Control, Auditing, Review and Other Assurance ICAP / IFAC
  - 19 Auditing M. Irshad
  - 20 Advanced Auditing Prof. Dr. Khuaja Amjad Seed
  - 21 Income Tax Ordinance 2001 FBR
  - 22 Introduction to Taxation / Synopsis of Taxes in Pakistan Mirza Munawar Hussain
  - 23 Law in Practice - Income and Sales Tax Abdul Razzaq
  - 24 Business Taxation Ijaz Ali Waince
  - 25 Principles of Managerial Finance Lawrence J. Gitman
  - 26 Fundamental of Financial Management Van Horne. Wachowicz Jr. Bhaduri
  - 27 Basic Business Finance Hunt, Williams and Donaldson
  - 28 Business Studies Hall, Jones and Raffo
  - 29 Foundations of Financial Markets and Institutions Fabozzi, Modigliani, Jones and Ferri
  - 30 Contemporary Business Kurtz and Boone



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- 31 Principles and Practice of Commerce Stephenson
- 32 Introduction to Business M. Saeed Nasir





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## **PAPER: AGRICULTURE & FORESTRY (100 MARKS)**

### **Part-I: Agriculture (50 marks)**

I. Concept of Integrated Agriculture: Components of natural resources as bases for agriculture production (Land, Water, biological, Environmental, Solar, Energy)

II. Challenges in Pakistan's Agriculture: Present scenario and future prospects. Analytical overview: issues and strategies for improvement of crop management, livestock management, fisheries, cottage industry, resource management and rural development. Institutions and policies: issues and options.

III. Elements of Climate and their Relationship with Crop Growth: Farming Systems, biological nitrogen fixation, soil profile, structure and texture, soil fertility, soil erosion and conservation, water logging and salinity

IV. Genetic Improvement for Crop Production: GMO crops, Seed production technology.

V. Horticulture: Floriculture, landscaping, pests and diseases of agriculture crops and their control, integrated pest management.

VI. Rainfed and Irrigated Agriculture: Agriculture mechanization, land tenure and land reforms, role of agriculture in national economy.



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## Part-II Forestry = (50 Marks)

- I. Forest, rangelands and wildlife importance and significance
- II. Forest management and utilization, wood based industries in Pakistan, silviculture
- III. Range management and utilization
- IV. National and international forest wealth statistics
- V. Role of wildlife as value addition to forestry
- VI. Forest based wildlife resources of Pakistan and their management, eco-tourism
- VII. Forestry, agroforestry, social forestry and forest biometrics
- VIII. Socio-economic and ecological impact of man made forests
- IX. Watershed Management and role of forests in prevailing climate change dilemma
- X. National forest laws and policies at national level, biodiversity & environment

## SUGGESTED READINGS

- | S.No. | Title   | Author          |
|-------|---|-----------------|
| 1.    | Shaping the Future of Water for Agriculture                         | World Bank, USA |
| 2.    | Participatory Rural Development in Pakistan                         | Khan, M. H      |
| 3.    | Agriculture in Pakistan   | Khan M. H.      |
| 4.    | Economic Survey of Latest Years                                     |                 |
| 5.    | Agric/Livestock/Machinery/Rural Developments Censes of Latest Years |                 |
| 6.    | Fundamentals of Soil Science  | Henry D. Foth   |
| 7.    | Manual of Plant Production  | Abdul Manan.    |



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8. Principles of Field Crop Production Martin., J.H. & Leonard, W.H.
9. Diseases of Field Crops Dickson, J.G
10. Irrigation Principles & Practices Isrealson, O.W. Vaughn, E. Hansen.
11. A Text Book of Plant Pathology A.V.S.S. Sambamurti
12. Breeding Field Crops Poehlman
13. The Principles of Agronomy. Harris, Franklin Stewart
14. Forest Types of Pakistan Champion, H.G., S.K. Seth and, G.M.Khattak
15. Manual of Silviculture for Pakistan Champion, H.G., S.K. Seth and G.M.Khattak
16. Trees of Pakistan M.I. Sheikh
17. Range Management in Pakistan M.A.A. Qureshi
18. Comprehensive Forestry B.A. Raza
19. Farm Forestry in Pakistan, M.A.A. Qureshi
20. Forest Management G.M. Khattak,
21. Wildlife Ecology, Conservation and Management A. R. E. Sinclair, J. M. Fryxell, G.Caughley
22. Basics of Forestry & Allied Sciences Dr. Masood A.A. Qureshi



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## PAPER: ANTHROPOLOGY (100 MARKS)

### I. Anthropology

- Definition of anthropology, its historical development and recent trends

### II. Social Anthropology

- Definition of culture, its characteristics and functions
- Relationship of anthropology with other social sciences
- Sub fields of anthropology:
  - a) Biological Anthropology,
  - b) Archaeology,
  - c) Linguistic Anthropology
  - d) Socio-Cultural Anthropology
    - Institution of Family and Marriage  
(Definitions, types, structures, functions, family organization)
    - Kinship and Social Organization  
(Definitions, types, functions, kinship terminology etc)
    - Economic Organization:  
(Definitions, evolution, substantivism versus formalism, reciprocity, production, consumption, distribution, barter and primitive economic systems)
    - Political Organization:  
(Definitions, evolution of political system, characteristics of (band, tribal, chiefdom and state societies), theories of the origin of state societies (internal conflict theories, external conflict theories, population and irrigation theories, institutionalization of leadership and the emergence of state, system theories), origin



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of civilization, the politics of identity, ethnicity and ethnic relations, nationalism, modernism, post-modernism etc.

- Religion:

(Definitions, evolution of primitive religions, functions of religion, comparison of devine religions and other world religions such as Hinduism, Buddhism, Jainism etc)

- Contemporary Human Problems:

Poverty, social inequality, political instability, population problems, ethnic violence and terrorism etc.

### III. Urban Anthropology

Rural-urban migration, expansion of cities, major environmental issues, sanitation problems, urbanization and development, establishment of slums and squatter settlements, refugees, yankees, betties, gypsies, wars and conflict, conversion of power from feudal to industrialists, institutionalization, education system, and change in the mode of production (agriculture to capitalists), poverty (theories and remedies), management of city life (psychological, cultural, economic, political, religious, physical, environmental, ecological, demographical, lingual etc.), Karl Marx and conflict theory, problems created by the mechanization and automation.

### IV. Socio-Cultural Change

Definitions, difference between social and cultural change, various dimension of cultural change, barriers to cultural change including (culture, psychological and political), internal dynamics for change, external dynamics for change, population incease and change, diffusion of innovations, socio-religious barriers in



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accepting the innovations and new ideas, media and cultural change, dynamics of change in Pakistan (Trends and prospects)

## V. Ethnicity and Race

Theories related to ethnicity and race, ethnicity and racism, nations and nationality, ethnic conflict, degree of social variation, rank societies, caste and class societies and social stratification etc.

## VI. Anthropological Theories

- Contributors: (Edward Burnett Taylor, Lewis Henry Morgan, James Frazer, Karl Marx, Edmund Leach, Franz Boas, Margaret Mead, Ruth Benedict, Alfred L. Kroeber, Alfred Reginald Radcliffe-Brown, Bronislaw Kasper Malinowski, Clifford Geertz, Talal Asad, Akbar S. Ahmad, Ibn Khaldun, Shah Waliullah)
- Classical Theories: (Degenerations, Evolutionism, Neo-Evolutionism, Diffusions)
- Modern Theories: (Functionalism, Structural-functionalism, Class struggle, Structuralism, Historical Particularism, Feminism, Culture and personality)
- Current Trends in Anthropological Thoughts: (Post Modernism, Romanticism, Poetics and Politics of Ethnography)

## VII. Anthropological Research Methods

- Meaning, definition, types and aims of anthropological research
- Qualitative and Quantitative research
- Purpose of research, research question, variables, hypothesis, research objective(s), research design, sampling,



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field data collection, tools of data collection (questionnaire, interview, participant observation), data classification, data analysis, and reporting.

## SUGGESTED READINGS

- | S.No. | Title  | Author  |
|-------|--|---|
| 1.    | Anthropology   | William A Haviland                              |
| 2.    | Cultural Anthropology                                      | Onrad Philip Kottak                             |
| 3.    | Diffusion of Innovation                                    | Evert M. Roger                                  |
| 4.    | Socio Cultural Dynamics and impact of Technological Change | G. M. Foster                                    |
| 5.    | Pakistani Society  | Akber S. Ahmed                                  |
| 6.    | Economic Anthropology                                      | Sutti Ortiz                                     |
| 7.    | Political Anthropology: An introduction                    | Ted. C. Lawellen                                |
| 8.    | Pukhtun economy and society                                | Akber S. Ahmed                                  |
| 9.    | Principles of Anthropology                                 | Eliot Dismore Chapple and Carleton Stevens Coon |
| 10.   | Anthropology and Modern life                               | Franz Boas                                      |
| 11.   | Anthropology and Contemporary Human Problem                | John H. Bodley                                  |
| 12.   | Sindh and the Races that inhabit the Valley of the Indus   | Richard Burton                                  |
| 13.   | The People of Pakistan                                     | Yu. V. Gankorvsky                               |
| 14.   | Anthropology and Development                               | Jean-Pierre Olivier de Sardan                   |
| 15.   | An Introduction to Theory in Anthropology                  | Robert Layton                                   |



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16. Anthropological Theory John R. McGee and Richard L. Warm
17. Anthropology in Pakistan Stephen Pastner and Louis Flam
18. Anthropology (13th edition) Carol R. Ember, Melvin R. Ember and Peter N. Peregrine
19. Other Cultures John Beattie
20. A Handbook of Social Science Research Beverly R. Dixon, Gary D. Bouma and G.B.J. Atkinson
21. Frontier Perspectives: Essays in Comparative Anthropology Charles Lindholm
22. Generosity and Jealousy: The Swat Pukhtun of Northern Pakistan Charles Lindholm
23. Friend by Day and Enemy by Night: Organized Vengeance in a Kohistani Community Lincoln Keiser
24. A Punjabi Village in Pakistan Zekiye Eglar
25. The social organization of the Marri Baluch Robert Niel Pehrson
26. Introducing Anthropology Park, MA 2007
27. Peoples and Cultures of Asia Scupin, R 2005
28. Outlines and Highlights for Anthropology Scupin, R and Decorse, CR 2010
29. Economic Anthropology Stuart Plattner
30. Economies and Culture Richard Wilk
31. Introduction to Anthropology of Religion Brian Moris



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## **PAPER: APPLIED MATHEMATICS (100 MARKS)**

### **I. Vector Calculus (10%)**

Vector algebra; scalar and vector products of vectors; gradient divergence and curl of a vector; line, surface and volume integrals; Green's, Stokes' and Gauss theorems.

### **II. Statics (10%)**

Composition and resolution of forces; parallel forces and couples; equilibrium of a system of coplanar forces; centre of mass of a system of particles and rigid bodies; equilibrium of forces in three dimensions.

### **III. Dynamics (10%)**

- Motion in a straight line with constant and variable acceleration; simple harmonic motion; conservative forces and principles of energy.
- Tangential, normal, radial and transverse components of velocity and acceleration; motion under central forces; planetary orbits; Kepler laws;

### **IV. Ordinary differential equations (20%)**

- Equations of first order; separable equations, exact equations; first order linear equations; orthogonal trajectories; nonlinear equations reducible to linear equations, Bernoulli and Riccati equations.
- Equations with constant coefficients; homogeneous and inhomogeneous equations; Cauchy-Euler equations; variation of parameters.
- Ordinary and singular points of a differential equation;



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solution in series; Bessel and Legendre equations; properties of the Bessel functions and Legendre polynomials.

## V. Fourier series and partial differential equations (20%)

- Trigonometric Fourier series; sine and cosine series; Bessel inequality; summation of infinite series; convergence of the Fourier series.
- Partial differential equations of first order; classification of partial differential equations of second order; boundary value problems; solution by the method of separation of variables; problems associated with Laplace equation, wave equation and the heat equation in Cartesian coordinates.

## VI. Numerical Methods (30%)

- Solution of nonlinear equations by bisection, secant and Newton-Raphson methods; the fixed- point iterative method; order of convergence of a method.
- Solution of a system of linear equations; diagonally dominant systems; the Jacobi and Gauss-Seidel methods.
- Numerical differentiation and integration; trapezoidal rule, Simpson's rules, Gaussian integration formulas.
- Numerical solution of an ordinary differential equation; Euler and modified Euler methods; Runge- Kutta methods.

## SUGGESTED READINGS

S.No. Title Author

1. An Introduction to Vector Analysis Khalid Latif,



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2. Introduction to Mechanics Q.K. Ghori
3. An Intermediate Course in Theoretical Mechanics Khalid Latif,
4. Differential Equations with Boundary Value Problems D. G. Zill and M. R. Cullen
5. Elementary Differential Equations E.D. Rainville, P.E. Bedient and R.E. Bedient
6. Introduction to Ordinary Differential Equations A.L. Rabenstein
7. Advanced Engineering Mathematics E. Kreyszig
8. An Introduction to Numerical Analysis Mohammad Iqbal
9. Numerical Analysis R.L. Burden and J.D. Faires
10. Elements of Numerical Analysis F. Ahmad and M.A. Rana
11. Mathematical Methods S. M. Yousaf, Abdul Majeed and Muhammad Amin



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## **PAPER: ARABIC (100 MARKS)**

### (A- Pre Islamic Period)

1. Influence of poets and poetry in Jahiliya period
2. Literary markets in pre-Islamic Arab specially UKKAZ
3. Purpose and features of pre-Islamic poetry special reference to Mu'allaqat

### B. Dawn of Islam

1. Eloquence and Rhetoric of Holy Quran with examples from Quranic verses.
2. Impact of Quran and Hadith on the subsequent literature.
3. Poetry at the dawn of Islam

### C. Umayyad Period

1. Art of Flying
2. Erotic and Platonic ghazal

### D. Abbasid and Spanish Period

1. Purposes and features of Abbasid poetry with special emphasis on the poetry of Mutanabbi, Abu Tammam, Abu Nuwas, AbulAtahia
2. Prose and its different styles with special emphasis on style of Ibn ul Ameer, Ibn ul Muqaffa, Al-Jahiz and Al-Qazi al Fazil.
3. Spanish poetry, with special reference to poetry of Ibn e Zaidoon

### E. Contemporary Arabic Literature

1. Development of Drama with special focus on services of



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Toufeeq al Hakeem

3. Development of Novel with special reference to the novels of Taha Hlsain and Nageeb Mahfooz

4. Development of short story with special focus on short stories of Mahmoof Taimoor

5. Poetry with special focus on poetry of Ahmed Shouqi and Hafi Ibraheem

F. Common Topics of different periods

1. Criticism from pre-Islamic era to the 4th Islamic Century period Umayyad to era pre-Islamic from Oratory of Art

2. Art of Oratory from pre-Islamic era too Umayyad period

3. Development of Arabic literature in the Sub-Continent: (Ghulam Ali Azad in poetry and Shah WaliUllah in prose)

G. Poetry for Arabic paper

1. Verses from ode of Imraul Qais (1-10)

2. Verses from Qaseedah of Zuhair bin Abi Sulma (50-62).

3. Verses from poetry of Hassan bin Thabit (14-28)

4. Verses from poetry of Ka'b bin Zuhair (33-40)

5. Verses from poetry of Hafiz Ibrahim (1-10)

6. Verses from ode of Ahmad Shouqi(1-10)

7. Verses from Qaseedah of Imam Al Booseri (15-24)



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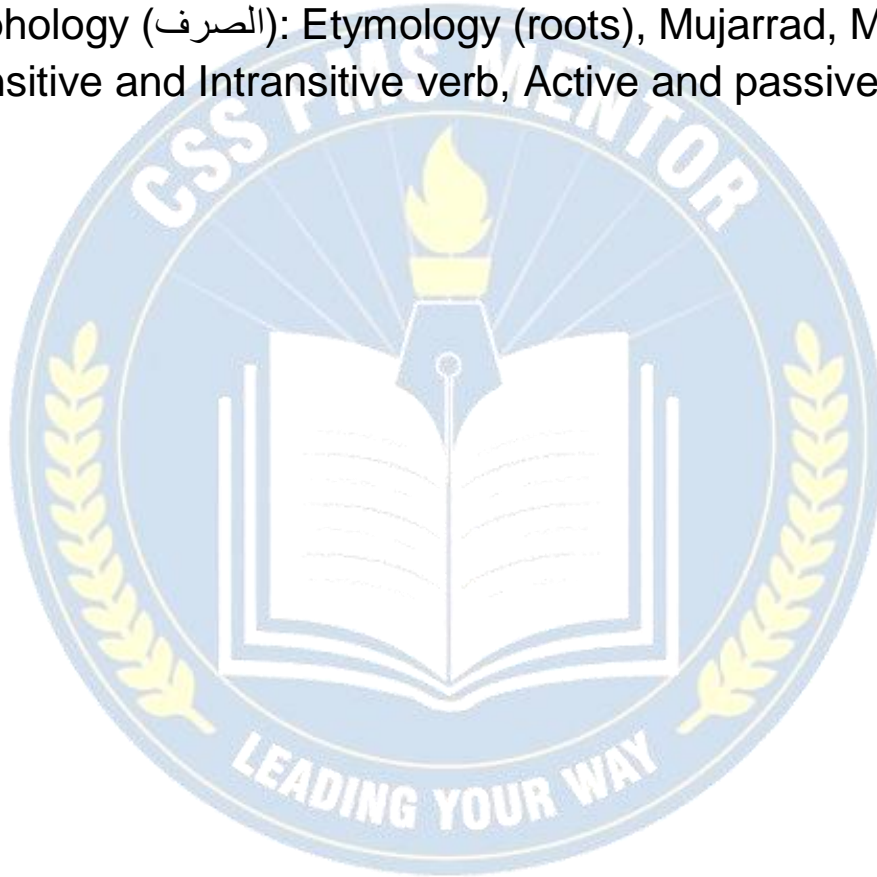
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## H. Araboc Grammar

1. Syntax (النحو): Kinds of Sentence (Nominal and Verbal), kinds of Noun ("Proper and Common", "Masculine and Feminine", "Singular, Dual and Plural", "Mu'rab and Mabni"), Case-Ending.

2. Morphology (الصرف): Etymology (roots), Mujarrad, Mazeed-fee, Transitive and Intransitive verb, Active and passive voice.





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**PAPER: BALOCHI (100 MARKS)**

(الف) شاعری۔ ۲۰ نمبر

- ۱۔ بلوچی گیدی شاعری (تہرہ پہار)
- ۲۔ کلایکل شاعری (بن گپ، شاعر، شاعری)  
(شعر مرید، مہناز، پیکر، حمل، جیند، بلائی، گورنچ، ملا قاضی، جام درک، مست، توکلی، مانک، سیک، ملک، دینار، وازی،  
رحم علی مری، جوانا، گیتی، پیکار، دار)
- ۳۔ نوکیس شاعری (تہرہ، مرال، شاعر)  
(میر گل خان نصیر، عطاشان، سید باقی، آزاد، بنالد، بنی، محمد حسین، عطاء، مراد، ساحر، اکبر، پارکزئی، کریم، چوٹی، بلقر، علی، ظفر،  
بنی، آرلا، بشیر، بیدار، مبارک، قاضی، ڈاکٹر، فضل، خالق، نلام، حسین، شوحاز، اللہ، بخش، یزدار)

(ب) ردائیک۔ ۲۰ نمبر

- ۱۔ ردائیگی تہر
- ۲۔ گھنئیں ردائیک (قہر، چل، چاچ، چاچا، بھارت)  
نوکیس ردائیک (اول، آزاد، کسمائیک، نگہ کاری، سفر، نامہ، ظہور، مزاج)  
(سید باقی، عزیز، بکٹی، منیر، احمد، بادینی، فنی، پرواز، ڈاکٹر، نعمت، گیتی، حکیم، بلوچی، یوسف، بلوچی، میر، نائل، خان، میمنگل،  
میر، مٹھان، مری، محمد، بیک، جنگل، صاحب، شتیار، صدیق، آزاد، کریم، چوٹی، ڈاکٹر، علی، دوست، بلوچی)

(ج) تاریخ و ثقافت ۱۵ نمبر

- ۱۔ بلوچی، بلوچستان، رامید، قری، خرد
- ۲۔ بلوچستان، جام، بلوچی، حکومت، انگریز، انی، آگ، تاپا، کستان، جوڑشت
- ۳۔ بلوچی، رید، گ، گھنئیں، تک، پیتات

(د) بلوچی زبان۔ ۱۵ نمبر

- ۱۔ بلوچی زبان، بکٹی، دیر، دی، رسم، الف، لکھو، ڈ، لوار، معیاری، زبان، بلوچی، گرنر

(و) ہشتائیک۔ ۱۰ نمبر

- ۱۔ گھنئیں، سر، مالے، مراد، جس، ہشتائیک



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- (م) رجا تک ۱۰ نمبر  
۱ چانگریز، بلوچی، چانگریز، بلوچی، چانگریز، رجا تک  
(و) بلوچی لوک ادب ۱۰ نمبر  
لوی، سوت، سپت، زبیروک، لاڑوگ، پاو، لیکو، ڈیپی، موٹک، دستاگ

## سرشونی کتاب

- ۱: بلوچی زبان و ادب کی تاریخ (مختصر جائزہ) سید ہاشمی  
۲: بلوچی زبان لکڑا تک - اشیر عبداللہ درشاہوانی  
۳: قدیم بلوچی شاعری کا تنقیدی جائزہ - واحد یزدار  
۴: شائیم - واحد یزدار  
۵: گنجیں کساک - اشیر شاہوانی  
۶: بلوچی قصی لکڑا تک (تکج، میروی) ڈاکٹر عبدالصبور بلوچ  
۷: تاجپیر تان - صدیق آزارت  
۸: بلوچی بوسیا - حاجی عبدالقیوم  
۹: لوزاکی میرا وگری - میر نائل خان مینگل  
۱۰: بلوچی رزمیہ شاعری - میر گل خان نصیر  
۱۱: بلوچی عشقیہ شاعری - میر گل خان نصیر  
۱۲: بلوچستان قدیم و جدید تاریخ کی روشنی میں - میر گل خان نصیر  
۱۳: تاریخ بلوچستان - (اول و دوم) صورت خان مری  
۱۴: گنجیں (ردا تک) - نوکس نام - بلوچی لکڑاکی دیوان  
۱۵: گنجیں آزما تک - حکیم بلوچ  
۱۶: جمل، عشق، مجاہد - شے رگام  
۱۷: بلوچی ردا تک، سفر - طاہر حکیم



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## **PAPER: BOTANY (100 MARKS)**

### I. Algae, Fungi and Bryophytes

- Phycology: Distribution, Classification, Structure, Life History and Economic importance of the main groups of Algae.
- Mycology and Plant Pathology: Structure, Reproduction, Classification and Economic importance of the main groups of Fungi. Diseases of economically important crops and general principles of their control
- Bryology: Structure and reproduction of bryophytes, Evolution of Gametophyte and Sporophyte.

### II. Pteridophyta and Gymnosperms

- General account with special reference to structure, life history and affinities of both Pteridophytes and Gymnosperms. Ontogeny and structure of seed, classification and economic importance of Gymnosperms.

### III. Anatomy and Embryology

- Primary and secondary tissues. Meristems. Secondary growth in dicot stem. Anatomy of leaf, stem and root.
- Micro and megasporogenesis, pollination mechanism, fertilization, development of Embryo and Endosperm, Seed dispersal.

### IV. Taxonomy of Angiosperms

- Systems of classification. Rules of botanical nomenclature. Concepts of speciation. Introduction to modern trends in plant taxonomy: bio-systematic, chemotaxonomy and numerical taxonomy. General characters and economic importance of



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common angiosperm families.

## V. Plant Physiology

- Plant water relations, Osmotic Quantities, component potentials of water and their role in transport, water absorption by roots, transpiration. Role of essential mineral elements and their uptake. Plant hormones. Photoperiodism, Vernalization. Dormancy and Seed germination. Enzymes.
- Photosynthesis: Plant pigments, Light reaction, CO<sub>2</sub> fixation, Mechanism of photophosphorylation.
- Respiration: Glycolysis, Krebs cycle, Mechanism of oxidative phosphorylation.

## VI. Ecology

- Influence of climatic, edaphic and biotic factors on plant growth. Vegetation sampling techniques. Concepts of ecosystems and their productivity, ecological energetics, Pyramids (of numbers, biomass and energy), trophic levels, food chains and food webs. Biogeochemical cycles (Hydrological and Nitrogen). Succession.
- Causes and reclamation of soil salinity and water logging in Pakistan. Soil erosion, its control and soil conservation methods. Deforestation. Biodiversity conservation. Pollution.

## VII. Cytology

- Cell cycle, cellular morphology, chemistry of cell wall and cell membrane, cell to cell communication, plant tissue and cell culture, cell senescence and cell death.



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- Ultra-structure of various cell organelles: Mitochondria, Golgi bodies, Endoplasmic reticulum, Plastids, Ribosomes, Glyoxysomes, Vacuoles, Nucleus.

## VIII. Genetics

- Mendelian Genetics, Multiple Alleles, Polygenic inheritance, Gene interaction, Epistasis and pleiotropy, Sex-linked inheritance, Chromosomal aberrations, Mutations, DNA repair.

## IX. Evolution

- Introduction of Evolution, Evolutionary history, Evolution of life, Convergent Evolution, Divergent Evolution, Parallel Evolution and Natural selection

## X. Molecular Biology

- Nucleic acids, DNA as hereditary material, DNA replication, Transcription, Genetic code, Protein synthesis, Genetic engineering and its application, Genetically Modified Organisms (GMO).

## SUGGESTED READINGS

S. No. Title Author

1. Esau's Plant Anatomy: Meristems, Cells and Tissues of the Plant Body: Their Structure, Function and Development Evert, F.F. and S. Hichhorn 2006
2. Cryptogamic Botany-Algae and Fungi Smith, G. M. 2001
3. Cryptogamic Botany-Bryophyte and Pteridophyte Smith,



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G. M. 2001

4. Comparative Morphology of the Vascular Plants Foster, A.S. and E.H. Gifford. 1989
5. Plant and Environment Daubermine, R, F, 1974
6. Plant Taxonomy and Biosystematics Stac, C. A. 1980
7. Plant Physiology Taiz, L.& E. Zeiger 2006
8. Genetics: A Conceptual Approach. 4th edition Pierce, B. A. 2012
9. Molecular Cell Biology Lodish, H., A. Berk, S.L. Zipursky, P. Matsudaira, D. Baltimore and J. Darnell 2000
10. Concepts of Genetics. 10th edition William S. Klug. 2012
11. Ilmi Biomolecules, Cell Biology and Genetics. Cheema, T.A. and Cheema Z.T. 2009
12. Carvan Textbook of Botany Paper "A" (Morphology of Plants) Malik, T. A. 2006
13. Ecology (Principles and applications). 1st ed. Cambridge University Press UK. Chapman, J.L. and Reiss, M.J. 1992.
14. Fundamentals of Ecology Odum, E.P. and Barrett, G.W. 2004
15. Advanced Plant Taxonomy Mondal, A. K., 2009
16. Growth and Differentiation in Plants Phillips and Wareing



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## PAPER: BRITISH HISTORY (100 MARKS)

### Part -I (Marks 50)

- I. The Glorious Revolution (1688)
  - Causes, and Results
  - William III and Mary II (1689-1702)
  - Queen Anne (1702-1714)
- II. Hanoverian Era (1714-1790)
  - Jacobite Rebellions (1715 and 1745)
  - Robert Walpole and Whig Oligarchy
  - American War of Independence (1776)
- III. The Union of England and Scotland
- IV. Union of England and Ireland
- V. The Old Colonial system
- VI. The French Revolution and Napoleonic Wars
  - Causes
  - Britain and Napoleonic Wars
  - Impact on Britain
- VII. Industrial and Agricultural Revolution
  - Causes
  - Effects on Political and Social Life of Britain
  - Party Politics
  - The Methodist Movement



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- Socialism
- Liberalism
- Colonization
- Chartest Movement

## VIII. Robert Peel and return of Tories

- Internal policies
- Irish Problem

## IX. Victorian Era (1837-1901)

- Internal Reforms
- Liberals
- Foreign Policy
- Disraeli, Gladstone and Problems in Ireland
- Great Britain and Free Trade

## X. Edwardian Era (1901-1910)

- Domestic and Foreign Policies (1901-1910)
- The Origins of Labor Party

## XI. Britain, World War I and its Aftermath

- Causes
- Britain and Peace settlement
- Effects of War on Britain
- League of Nations
- The Great Depression
- Appeasement and Rearmament



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## Part -II (Marks 50)

### XII. Britain ,World War II and its Aftermath

- Causes and events
- Churchill, War Conferences
- Creation of U.N.O
- Effects of war
- Reforms of Labour Government

### XIII. Great Britain and Cold War

- Creation of Common Wealth
- NATO
- Decolonization of the British Empire
- Internal Policies and EEC
- Foreign Policy

### XIV. Thatcherism to Cameron (1979-2012)

- Internal Policy
- Society and culture
- Foreign Policy
- Falkland War
- John Major and his Policies
- European Common Market and the Great Britain
- Formation of EU
- Tony Blair “New Labour” Economic Crunch, War on Terror and his Policies
- Global Financial Crisis 2008 and the Great Britain
- Reforms under Cameroun



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## SUGGESTED READINGS

- | S.No. | Title   | Author                                  |
|-------|---|---|
| 1.    | The Conservative Party from Peel to Thatcher  | Blake, Robert, 1985                     |
| 2.    | A New History of England, 410-1975.           | Oxford, New York, Pergamum Press, 1968. |
| 3.    | Trends in Britain Politics since 1945         | Cook,Chris and John Ramsden eds. 1978   |
| 4.    | The Hanoverians, 1714-1815                    | Green, V.H. 1976                        |
| 5.    | The People's Peace: British History 1945-1990 | Morgan,Kenneth O,1992                   |
| 6.    | Textbook of Modern English History 1714-1960  | Southgate,G.W.A, 1961                   |
| 7.    | English History, 1914-1945                    | Taylor, A.J.P. 1965                     |
| 8.    | Europe Since Napoleon                         | Thompson, David.1983                    |
| 9.    | English Social History                        | Trevelyan, G.M.                         |
| 10.   | Britain and Empire.                           | L.J. Butler.                            |
| 11.   | Democracy: Great Britain 1815–1914            | Bentley, Michael                        |
| 12.   | England in the Eighteenth Century             | Serlley, W.T.                           |
| 13.   | History of Britain                            | Carter, E.H.                            |
| 14.   | Mastering Modern British History              | Norman Lowe                             |
| 15.   | The Struggle for Mastery in Europe 1848–1918  | Taylor, A.J.P.                          |



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## **PAPER: BUSINESS ADMINISTRATION (100 MARKS)**

### I. Management

- Defining Organization, Management, and Management in Organizations
- Four Management Functions, Management Roles, Management Skills
- Organizational Internal-External Environment
- Management Planning, Goal Setting, and Decision Making
- Strategic Management Process: Strategy Formulation and Implementation
- Developing Organizational Structure and Design
- Designing Adaptive Organizations
- Managing Change and Innovation
- Leadership and Motivation

### II. HR Management

- Role of Human Resource Management in Organizational Performance
- Functions of HRM
- Process and Methods of Job Analysis
- Planning and Forecasting Personnel Needs
- Recruitment and Selection
- Training and Development
- Performance Management and Appraisal: Methods and Processes
- Establishing Strategic Pay Plans
- Compensation and Benefits
- Ethics, Justice, and Fair Treatment in HR Management



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- Labor Relations and Collective Bargaining

## III. Financial Management

- An overview of Financial Management

Introduction and significance of financial markets, Differentiation between real assets and financial assets, Types of Financial Markets, Role of capital and money markets in economic development, Organizational goals and shareholder wealth maximization perspective

- Time Value of Money

Cost of money and the factors effecting the cost, Interest rate fundamentals and determinants of market interest rate, Role of Time value of money in finance, Concept of future value and present value, Making timelines, Annuities, Perpetuities and mixed stream of cash flows, with and without growth, Present value and future value of cash flow streams, Compounding Interest; discrete and continuous, Loan amortization

- Analysis and Interpretation of Financial Statements

Reading the financial statements, Horizontal and vertical analysis including common size, ratio, comparative and index number trend analysis, Forecasting financials for future decision making, Evaluating credit, management, profitability, risk etc using financial statements

- Risk, Return and Introduction to Pricing

Measures of Risks and return, Investment return and expected rate of return, Standalone risk: standard deviation and coefficient of variation, Risk aversion and required rate of return, Portfolio risk: Diversifiable vs. Market risk, Security Market Line and CAPM, Calculating WACC, Discounting process for price



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determination, Relevant risk and return for valuation

- Cash flow and Budgeting

Significance of budgeting, Making cash budgets, Making financial forecasts, Difference between profit and cash flow, Read and analyze Statement of Cash flow.

- Capital Budgeting

Significance of Capital budgeting, Cash flow calculations: incremental cash flows, Capital budgeting decision rules: NPV, IRR, MIRR, Return, Finding optimal capital structure, calculating appropriate discount rate, Capital Rationing

## IV. Operations and Supply Chain Management

### a. Operations Management

- Operations & Productivity

Operations Management (OM) as one of the Three Core Functions in an Organization. Significance and contributions of OM in the field of management. Future trends in OM and differences between goods and services.

- Operations Strategy in Global Environment

Developing mission & OM strategies, Critical Success Factors (CSF), Aligning Core Competencies with CSF

- Process Strategy

Four Process Strategies, Process Analysis and Design, Process Mapping, Flow Diagrams, Process Charts, Service process design, Process Re-engineering

- Capacity Planning

Design & Effective Capacity, Capacity Cushion, Capacity considerations, Managing demand, Capacity Planning, Leading vs Lagging Strategies, Single & Multiple Product Break Even



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## Analysis for Capacity Planning

- Location Strategies

Factors Affecting Location Decisions, Methods for Evaluating Location Alternatives, Factor Rating Method, Load-Distance Methods, Center of Gravity Method, Service location Strategy

- Layout Strategies

Types of Layout, Layout Design, Fixed Position Layout, Process-Oriented Layouts, Office Layout, Retail Layout, Assembly Line Balancing

- Inventory Management

Role of Inventory in Operations, ABC analysis, Record accuracy, Cycle counting, Inventory Models, Fixed Period Systems, Continuous Review Systems, Basic EOQ Inventory Model, Safety Stock, Service Level

## b. Supply Chain Management

- Introduction to supply chain management and logistics management

What is supply chain management and logistics management, Objectives, Importance, Examples of supply chain management and logistics management, Decision phases in supply chains

- Supply chain performance

Achieving strategic fit, Challenges in achieving strategic fit, Supply chain cost, Supply chain quality, Supply chain lead time

- Supply chain drivers

Facilities as a driver, Inventory as a driver, Information as a driver, Transportation as a driver, Sourcing as a driver, Pricing as a driver

- Balancing supply and demand

Bullwhip effect, Demand collaboration, Information sharing in



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supply chains, accurate response strategy

- Supply chain coordination

Obstacles in coordination, Vendor managed inventory, Collaborative planning forecasting and replenishment, Managerial levers to achieve coordination

- IT in supply chain management

Role of IT in supply chain management, Customer relationship management, Supplier relationship management, Risk management in IT, Supply chain IT in practice

## V. Marketing

- Introduction to marketing
- Developing marketing strategies and plans
- Scanning the marketing environment
- Analyzing consumer markets
- Market segmentation
- Managing marketing information
- Branding
- Product life cycle
- Pricing
- Managing distribution channels
- Integrated marketing communications

## SUGGESTED READINGS

S.No Title Author

1. Management Richard L. Daft,
2. Management Stephen P. Robbins, Mary Coulter, and



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NeharikaVohara

3. The Practice of Management Peter F. Drucker
4. Human Resource Management Gary Dessler and BijuVarkkey
5. Human Resource Management Noe, Hollenbeck, Gerhart, Wright.
6. Human Resource Management David A. DeCenzo& Stephen P. Robbins
7. Human Resource Management Derek Torrington & Laura Hall
8. Essentials of Corporate Finance Ross, Westerfield and Jordan
9. Principles of Finance Besley and Brigham
10. Financial statement Analysis George Foster
11. Principles of Managerial Finance Gitman and Zitter
12. Fundamentals of Corporate Finance Brealey, Myers and Marcus
13. Advanced Corporate Finance Ogden, Jen and O' Conner
14. Operations Management for Competitive Advantage, 2006 Chase, Richard B., Aquilano, Nicholas J., and Jacobs, F. Roberts
15. Principles of Operations Management 2005 Raturi, Amitabh S., Evans, James R
16. Operations Management 2008 Heizer, Jay and Render, Barry,
17. Supply Chain Management: Strategy, Planning, and Operations Sunil Chopra, Peter Meindl, and D.V. Kalra,
18. Supply Chain Management: From Vision to Implementation Stanley E. Fawcett, Lisa M. Ellram, and Jeffrey A. Ogden



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19. Business Logistics & Supply chain management  
Ronald H. Ballou
20. Principles of Marketing Kotler, Armstrong, Agnihotri  
and Haque
21. Basic Marketing Perreault and McCarthy
22. Marketing a Practical Approach Peter Rix





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## PAPER: CHEMISTRY (200 MARKS)

### Paper-I (100 Marks)

#### I. Atomic Structure and Quantum Chemistry

Electromagnetic spectrum, photoelectric effect, Bohr's atomic model, wave and particle nature of light matter, de Broglie's equation, Heisenberg's uncertainty principle, wave functions and Born interpretation of wave functions, probability density, Eigen functions and Eigen values, Hamiltonian operator, Schrödinger wave equation and its solution for particle in one and three dimensional box.

#### II. Electrochemistry

Ions in solution, measurement of conductance and Kohlrausch's law, mobility of ions and transport number, conductometric titrations, Debye-Hückel theory and activity coefficient, determination of activities, Redox reactions, spontaneous reactions, electrochemical cells, standard electrode potentials, liquid junction potential, electrochemical series, Nernst's equation, measurement of pH, electrolytic cells, potentiometry, reference and indicator electrodes, fuel cells, corrosion and its prevention.

#### III. Thermodynamics

Equation of states, ideal and real gases, the Van der Waals equation for real gases, critical phenomena and critical constants, four laws of thermodynamics and their applications, thermochemistry, calorimetry, heat capacities and their dependence on temperature, pressure and volume, reversible



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and non-reversible processes, spontaneous and non-spontaneous processes, Hess's law, The Born-Haber cycle, relations of entropy and Gibbs free energy with equilibrium constant, Gibbs Helmholtz equation, fugacity and activity.

## IV. Chemical Kinetics

The rate and molecularity of reactions, Factors affecting rate of a chemical reaction, zero, first, second and third order reactions with same initial concentrations, half-lives of reactions, experimental techniques for determination of order of reaction (integration, half-life, initial rate and graphical methods), collision theory, transition state theory, Arrhenius equation and rate equations of complex reactions.

## V. Surface Chemistry and Catalysis

Properties of liquids, physical and chemical properties of surface, determination of surface area. Adsorption and absorption; physical adsorption and chemisorption, adsorption isotherms, Langmuir adsorption isotherm and Freundlich Adsorption isotherm. Colloids; properties, classification and preparation of colloidal systems. Surfactants, Phase rule; Gibbs equation of phase rule, one component systems, two component systems and their examples, Catalysis; homogeneous and heterogeneous catalysis, acid-base and enzyme catalysis.

## VI. Fundamentals of Chemometrics

Sampling, significant figures, stoichiometric calculations, measurement errors, analysis of variance (ANOVA), arithmetic mean, median, mode, standard



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deviation/relative standard deviation, confidence limits, Gaussian distribution, least square method, Statistical tests.

## VII. Separation Methods

Solvent extraction; theory of solvent extraction; solvent extraction of metals, analytical separations, multiple batch extraction and counter current distribution.

Chromatography; theory of chromatography, classification and overview of chromatographic techniques (paper, thin layer, column and ion exchange chromatographies). Principle of electrophoresis and its application as separation and characterization of proteins.

## VIII. Basic Inorganic Chemistry

Types of chemical bonding, ionic and covalent bonding, localized bond approach, theories of chemical bonding, valence bond theory (VBT), hybridization and resonance, prediction of molecular shapes using valence-shell electron-pair repulsion (VSEPR) model, Molecular orbital theory (MOT) applied to diatomic molecules, delocalized approach to bonding, bonding in electron deficient compounds, hydrogen bonding, Physical and chemical properties of p-block elements with emphasis on oxygen, carbon, chlorine, silicon, nitrogen, phosphorus and some of their representative compounds.

## IX. Acids and Bases

Brief concepts of chemical equilibrium, acid-base theories including soft and hard acid and base (SHAB) concept, relative strength of acids and bases, significance of pH, pKa, pKb and



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buffer solutions. Theory of indicators, solubility, solubility product, common ion effect and their industrial applications.

## X. Chemistry of d and f-block elements

General characteristics of d-block elements, historical background of coordination chemistry, nomenclature and structure of coordination complexes with coordination number 2-10, Chelates and chelate effect. Theories of coordination complexes; Werner's theory, Valence bond theory (VBT), Crystal field theory (CFT) and Molecular orbital theory (MOT). Jahn-Teller theorem, magnetic properties, spectral properties, isomerism, stereochemistry and stability constants of coordination complexes.

General characteristics of Lanthanides, occurrence, extraction and general principles of separation, electronic structure and position in the periodic table, lanthanide contraction, oxidation states, spectral and magnetic properties and uses. General characteristics of actinides, electronic structure, oxidation state and position in the periodic table, half-life and decay law.

## Paper-II (100 Marks)

### I. Basic Concepts of Organic Chemistry

Bonding and orbital hybridization, Localized and delocalized bonding, Inductive effect, Dipole moment, Resonance, Hyperconjugation.

### II. Saturated and Unsaturated Hydrocarbon

Nomenclature, Physical properties, Preparation and reactions of



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alkanes, alkenes and alkynes.

### III. Chemistry of Aromatic Compounds

Benzene structure, Aromaticity, Mechanism of electrophilic substitution reaction, Activating and deactivating substituents, Effect of substituents on orientation and reactivity.

### IV. Chemistry of Functional Groups

Preparation and properties of alcohols, phenols, ethers, and amines with focus on reaction mechanism and applications. Preparation and reactions of alkyl halides. Synthetic applications of Grignard reagent. Carbonyl compounds, preparations and reaction mechanism of aldehydes and ketones and their applications. Carboxylic acids and their derivatives, acidity of carboxylic acids and effect of substituents on their acidity, preparation and reactions of carboxylic acids and their derivatives including acid halides, acid anhydrides, esters and amides.

### V. Aliphatic nucleophilic substitution and elimination reactions

Mechanism of nucleophilic substitution reactions. Elimination reactions, Zaitsev rule and Hofmann rule. Competition between Substitution and elimination reactions.

### VI. Stereochemistry

Molecular chirality. Types of stereoisomers. R,S configuration and E,Z designation. Optical activity, Stereoselectivity and stereospecificity. Resolution of racemic mixtures.

### VII. Organic Spectroscopy

Theory, Principle, instrumentation and applications of



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UV/Visible,  $^1\text{H}$  NMR, IR spectroscopy and Mass spectroscopic techniques.

## VIII. Biomolecules

Carbohydrates; Monosaccharides, oligosaccharides and polysaccharides, biological functions of starch, glycogen, cellulose, and cell wall polysaccharides.

Lipids; Classification and biological importance of lipids. Significance of lipids in biological membranes and transport mechanism.

Amino Acids; Classification of amino acids. Physical and chemical properties of amino acids. Biological significance.

Proteins; Classification. Properties and biological significance. Primary, secondary tertiary and quaternary structures.

Nucleic Acids; Chemical composition of nucleic acids. Structure and biological significance of nucleic acids.

Enzymes; Enzyme-substrate interactions and nature of active site, mechanism of enzyme action, kinetics of single substrate reactions, enzyme inhibition, regulatory enzymes and allosteric enzymes.

## IX. Metabolism

Digestion; absorption and transport of proteins, carbohydrates, lipids and nucleic acids. Glycolysis; citric acid cycle, gluconeogenesis, glycogenesis, glycogenolysis and photosynthesis.

Biosynthesis of triglycerides, phospholipids, steroids and bile acids



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and ketone bodies.

Biochemical reaction of amino acids: decarboxylation, deamination, transamination and transmethylation, etc., urea cycle, creatine and uric acid synthesis.

Catabolism of nucleosides, DNA polymerases and other enzymes involves in metabolism.

## X. Chemical Industries

Manufacturing and processing of sugar, cement, glass, paper, fertilizers, soap and detergents.

## SUGGESTED READINGS

- | S.No. | Title  | Author  |
|-------|--|---|
| 1.    | Physical Chemistry, 4th ed., 2005  | Silbey, R. J., Alberty, R. A., and Bawendi, M. G. |
| 2.    | Physical Chemistry - A Molecular Approach, 1st ed. 1997                                  | McQuarrie, D. A. and Simon, J. D.                 |
| 3.    | Atkin's Physical Chemistry, 9th ed. 2010   | Atkins, P. and Paula, J. D.                       |
| 4.    | Physical Chemistry, 4th ed. 1972   | Moore. W. J.                                      |
| 5.    | Modern Analytical Chemistry, 2000  | Harvey, D.  |
| 6.    | Quantitative Chemical Analysis, 8th ed. 2011   | Harris, D.C.,                                     |
| 7.    | Analytical Chemistry. 6th ed., 2006  | Christian, G. D.                                  |
| 8.    | CHEMOMETRICS-Statistics and Computed applications in Analytical Chemistry, 2nd ed., 2007 | Matthios, O.                                      |
| 9.    | Statistics and Chemometrics for Analytical Chemistry, 5th ed. 2005                       | Miller, J. and Miller, J                          |



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10. Separation Chemistry 2004 Budhiraja, R.P
11. Advanced Inorganic Chemistry, 6th ed. 2007 Cotton, F.A. and Wilkinson, G.
12. Inorganic Chemistry, 4th ed. 2010 Miessler, G. L. and Tarr, D.A.
13. Inorganic Chemistry, 5th ed. 2010 Shriver, D. and Atkins, P.
14. Textbook of Inorganic Chemistry 2013 Chaudhary, S. U.
15. Organic Chemistry, 10th ed. 2011 Solomons, T. W. G., and Fryhle, C. B.
16. Organic Chemistry, 6th ed. 2012 Brown, W. H., Fotte, C. S., Iverson, B.L. and Anslyn, E. V.
17. Organic Chemistry, 8th ed. 2012 John, E. M.
18. Introduction to Spectroscopy, 4th ed., 2009 Pavia, D. L., Lampman, G. M., Kriz, G.S. and Vyvyan, J. R.,
19. Spectrometric Identification of Organic Compounds 2005 Silverstein, R. M. Webster, F. X. and Kiemle, D.
20. Organic Spectroscopy 2006 Younas, M.
21. Stereochemistry (Basic Concepts in Chemistry) 2002 Morris, D. G.
22. Shreve's Chemical Process Industries, 5th ed. 1984 Shreve, R. N. and Austin, G. T.
23. Riegel's Handbook of Industrial Chemistry 2003 Riegel, E. R., and Kent, J. A.



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## **PAPER: COMPUTER SCIENCE (200 MARKS)**

Paper-I (100 Marks)

Section-A (50 Marks)

### **I. Introduction to Computing**

Introduction to Information Technology and Computers, History of Computing, Computer HW and SW Details, Computer System Components and Communication System, Input & Output devices and their types, Storage Media and their types, Types of Computer Hardware, Software, and Programming languages, Information Representation & Number Systems, User interfaces, Major Software Issues, Creation, formatting, and maintenance of Computer documents, Usage of Word processors, Spread sheets, Power-Point, Email, Search Engines, Browsers, Messengers, and Internet, Computers & Society, Information Security/Privacy, Computer Crimes and Ethical Challenges, Viruses, Plagiarism, Intellectual Property Rights, Difference between computer science, software engineering, information technology, information systems, computer engineering and bioinformatics; IEEE / ACM computing disciplines guidelines.

### **II. Programming Fundamentals**

Basic programming elements and concepts, Problem Solving & Program Design, Components of a programming language, Program development and execution, Program structure, Data types and variable declarations, Standard I/O streams, and statements, Control structures, Standard library functions, User defined functions and parameter passing, Arrays, pointers, and strings, Structures, unions, and bit manipulation operators.



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## III. Object Oriented Paradigm

Object Oriented Programming Concepts ( Object-oriented paradigm, data abstraction, encapsulation, inheritance, Polymorphism), Introduction to Classes and Objects ( classes, objects, data members, member functions), Classes Advanced ( friends, static, composition, this, const), Operator overloading (stream insertion, stream extraction, binary operator, unary operator), Inheritance (single inheritance, multiple inheritances, protected members, method over-riding), Polymorphism (virtual function, pure-virtual functions, abstract class, abstract super class), Standard Template Library (STL), Files & streams (sequential access files, random access files), File processing, Exception Handling

### Section-B (50 Marks)

## IV. Algorithms & Data Structures

Fundamental concepts, Properties of algorithms, Criteria for an Algorithm, Parameters for selecting an algorithm, Algorithm Representations, Pseudo Code and Flow Charts, Designing Algorithms, Algorithm Analysis and Asymptotic Notations, Classification of Lists, Abstract Data Types, Implementation of Stacks and Queues using ADTs, Searching and Sorting Algorithms (Linear Search, Binary Search, Bubble Sort, Merge Sort, Quick Sort, Heap Sort), Stacks and Queues, Hash Tables (Linear Probing, Bucketing, Chaining), Recursion, Trees (Binary Trees, Binary Search trees, AVL Trees, Two-Three Trees), Graphs, Heuristic (Guided) Search, Genetic Algorithms,



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Encryption Algorithms (DES, RSA)

## V. Software Engineering

Software Processes, Software Process Models, Agile Software Development, Analysis Modeling, Requirements Engineering, Design Concepts, Architectural Design, Design & Implementation, Software Testing, System Delivery and Maintenance, Software Evolution Formal Specification, Software Quality Assurance, Introduction to Proofs of Correctness (LNO), Distributed Software Engineering, Aspect-Oriented Software Engineering, Project Management, Process Improvement

## VI. Compiler Construction

Difference among various type of Translators, Phases of Compilers, Classification of Compilers, Lexical Analysis (Input buffering, Specification & Recognition of tokens, Regular expressions, Finite automata, Syntax Analysis (Context-free grammars and their classification, LL(k) vs. LR(k) grammars, Top-down vs. Bottom-Up parsers, Parsing Techniques, FIRST and FOLLOW sets, Predictive Parsing using LL(1) grammars, Syntax error handling and recovery strategies), Syntax Directed Translation (Synthesized attributes, Inherited attributes, Construction of syntax trees, Top-down translation), Semantic analysis (Symbol tables, Type Expressions, Type Checking of statements), Intermediate Code Generation, Code Generation (Issues in the design of code generation, The target machine, Run-time storage management, Register allocation), Code optimization (Elimination of Redundant code, Folding of



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Constant, Loop optimization, Peephole optimization, Problems of optimization)

Paper-II (100 Marks)

Section-A (50 Marks)

## I. Computer Organization & Architecture

Fundamental concepts, Overview of a Computer System, Evolution & Performance Languages, Architectural levels, Virtual machines, Processor types, Metrics, Machine instructions, Instruction execution cycle, CISC vs. RISC, Parallelism, Internal/External data representation, Computer Function and Interconnections, Cache Memory, Internal Memory, External Memory, Input /Output System, Computer Arithmetic Microprocessor and its Bus Structure, I/O Types, Types of Buses, Memory Organization and Structure, information flow and execution in Machine, Instruction Representation, Machine Instruction Characteristics, Instruction Processing, Processor Structure & Function, Control Unit Operation, Micro-programmed Control, Instruction-Level Parallelism And Superscalar Processors, Parallel Processing, Multi-Processor and Multi-core Systems

## II. Computer Communications & Networks

Basic Concepts and Classification of Networks, Circuit switching, Packet switching, Multiplexing (TDM, FDM), Layering: OSI and TCP/IP, Application Layer (Network application architectures, HTTP, FTP, Email, DNS, P2P applications), Transport Layer (Multiplexing in UDP and TCP, Connectionless Transport: UDP,



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Reliable data transfer and TCP, Congestion avoidance and control), Network Layer (The Internet Protocol, IPv4 Datagram, Internet Address Classes, Special IP Addresses ARP, IPv6, ICMP, Network Address Translation (NAT), Internet Routing Protocols and Algorithms, X.25, Frame relay and ATM, MPLS), Physical & Link Layer Functionalities (Error Detection & Control, ARQ, Link layer addressing, LAN Technologies, Bridges and Hubs, Multiple Access), Special topics (Security, Overlay networks, naming, Content distribution networks, Peer to peer systems, DHTs, Network Attacks)

### III. Operating Systems Concepts

Roles of an Operating System, Operating-System Evolution, Structures, and Operations, Classification of Operating Systems, Computing Environments, Design and Components of OS, Process Management, Process Synchronization, Deadlocks, Memory Management, Virtual Memory Management, File Systems (UNIX and Windows Systems), I/O Management  
Section-B (50 Marks)

### IV. Database Systems

Introduction to Database Systems, Relational Data Model & Relational Database Constraints, Relational Data Model, SQL, Relational Algebra & Calculus, ER Model, ER to Relational Mapping, PL/SQL Stored Procedures & Triggers, Functional Dependencies and Normalization, Storage & Indexing, Indexing Structure, XML documents & Web Services, Query Processing & Evaluation, Query Optimization, Transaction processing, Object- Oriented Databases, Distributed Databases, Database



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## Security & Access Control

### V. Digital Image Processing

The relation between Image Processing, Computer Graphics, Computer Vision and Artificial Intelligence; Image Sensing and Acquisition Techniques; Representing Digital Image; Image Sampling and Quantization; Image Storage and Operations; Image Transformations (Translation, Scaling, Rotation, Shear); Image Histogram; Image Enhancement (Contrast, Smoothing, Sharpening); Gray-scale and Color Images; Color Models (RGB, CMYK and HIS); Image Restoration; Noise Models; Morphological Operators (Erosion, Dilation, Opening, Closing, Skeletonization, Thinning); Image Segmentation; Point Detection, Line Detection, Edge Detection and Boundary Detection; Image Compression

### VI. Web Engineering & Technologies

Modeling techniques for web applications, Introduction to web engineering, requirement engineering, requirement, types of requirements, functional requirements, non functional requirements, Requirement engineering process (Elicitation and negotiation, Documentation, Validation and verification, Management), HTML(hypertext markup language), Software Architecture, Styles, Patterns, and frameworks, Components of Web Architecture, Classifications of web architecture , Web Application layered architecture ( client server, n- layered, JSP model, struts, OOHDM ), Integration Architecture, Data Aspect architectures, Cascading Style Sheet(CSS), CSS properties, JavaScript (Functionalities, Events, Variables, Operators),



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DOM(Document Object Model), XML, RSS, API, Client-side programming using (HTML, XHTML, XML, JavaScript, and CSS), Server- side programming using PHP, Web development process, Web Application Development Methodologies, Web site promotion and deployment, Web applications Issues (Accessibility, testing, performance, operation, maintenance, security)

## SUGGESTED READINGS

- | S. No. | Title   | Author   |
|--------|---|--|
| 1.     | C++ How to Program  | Harvey M. Deitel and Paul J. Deitel.             |
| 2.     | Compilers: Principles, Techniques, and Tools                      | Alfred V. Aho, Ravi Sethi, and Jeffrey D. Ullman |
| 3.     | Operating System Concepts   | Silberschatz, Galvin, and Gagne. John            |
| 4.     | Operating Systems   | William Stallings                                |
| 5.     | Computer Organization & Architecture                              | William Stallings                                |
| 6.     | Computer System Architecture                                      | M. Morris Mano                                   |
| 7.     | Computer Organization and Design: The Hardware/Software Interface | David A. Patterson and John L. Hennessy          |
| 8.     | Software Engineering  | Ian Sommerville                                  |
| 9.     | Software Engineering A Practitioner's Approach                    | Roger S. Pressman                                |
| 10.    | Data Structures and Algorithm Analysis in C++                     | Mark Allen Weiss                                 |
| 11.    | Computer Networking: A Top Down approach featuring the            |  |



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- Internet James F. Kurose and Keith W. Ross
12. Data and Computer Communications William Stallings
  13. Computer Networks Andrew Tanenbaum
  14. Fundamentals of Database Systems Ramez Elmasri and S. B
  15. Database Systems Concepts Silberchatz, Abraham & Korth, Sudarshan
  16. Web Services: Principles and Technology Michael Papazoglu
  17. Electronic Commerce: The Second Wave, Ninth Edition Gary P. Schneider
  18. Electronic-Commerce -A Managerial Perspective Turban, Lee, King, Chung
  19. Web Engineering Kappel, G., Proll, B. Reich, S. & Retschitzegger
  20. Styling Web Pages with CSS Tom Negrino and Dori Smith
  21. PHP: The Good Parts Peter B. MacIntyre
  22. Learn JavaScript Chuck Easttom
  23. ADTs, Data Structures, and Problem Solving with C++ Larry R. Nayhoff
  24. Digital Image Processing Gonzalez and Woods



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## **PAPER: CONSTITUTIONAL LAW (100 MARKS)**

I. Definition and Scope of Constitutional Law, Basic Constitutional Concepts (Constitutional Conventions, Rule of Law, Due Process), Constitutional Structures (Parliamentary, Presidential, Separation of Powers), Judiciary (Independence of Judiciary, Judicial Review, Theories of Constitutional Interpretation) Fundamental Human and Political Rights and Civil Liberties (freedom of speech, association, assembly, movement and Right to Counsel, life, property, religion, privacy, self incrimination, double jeopardy).

II. Principles of Constitutional Law with special reference to United Kingdom, United States of America, France, Russia, China, Pakistan, India and Turkey.

III. Constitutional History of Pakistan: Principles of Constitutional Law of Pakistan, Salient feature of the Government of India Act, 1935, Indian Independence Act 1947, Objectives Resolution 1949, Constitutions of 1956, 1962 and 1973, Abrogation and Suspension of the Constitutions and the Martial Laws, Legal Framework Order, 1970, The PCO of 1981, The RCO of 1985, The LFO-2002, Amendments in the 1973 Constitution.

IV. Legal Development:

- Maulvi Tamizuddin Khan v. Federation of Pakistan PLD 1955 Sindh 96.
- Federation of Pakistan vs. Maulvi Tamizuddin Khan, PLD



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1955 FC 240

- Reference by the Governor-General PLD 1955 FC 435
- State v. Dosso PLD 1958 SC 533.
- Usif Patel v. Crown PLD 1955 FC 387
- Begum Nusrat Bhutto v. Chief of the Army Staff PLD 1977

SC 657

- Hakim Khan v. Government of Pakistan PLD 1992 SC 595
- Nawaz Sharif v. President of Pakistan PLD 1993 SC 473
- Benazir Bhutto v. the President of Pakistan PLD 1992 SC

492

- Khawaja Muhammad Sharif, PLD 1988 Lah. 725
- Federation of Pakistan v. Haji Saifullah Khan PLD 1989 SC

166

- Khawaja Ahmad Tariq Rahim PLD 1992 SC 646
- Benazir Bhutto v. President of Pakistan, PLD 1998 SC 388
- Asma Jilani v. Government of the Punjab PLD 1972 SC 139
- State v. Zia ur Rehman PLD 1973 SC 49
- Mahmood Khan Achakzai v. Fed. of Pakistan PLD 1997 SC

426

- Zafar Ali Shah v. General Pervez Musharraf, PLD 2000 SC 869.

- Sindh High Court Association v. Federation of Pakistan, PLD 2009 SC 879.



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## SUGGESTED READINGS

- | S.No. | Title  | Author                 |
|-------|--|------------------------|
| 1.    | Comparative Constitutional Law                           | Hamid Khan & M.W. Rana |
| 2.    | Constitution of Pakistan 1973                            | Shabbar Raza Rizvi     |
| 3.    | Introduction to the Study of the Law of the Constitution | Dicey                  |
| 4.    | Elgar Encyclopedia of Comparative Law                    | J.M. Smits             |
| 5.    | Constitutional & Political History of Pakistan           | Hamid Khan, Advocate   |
| 6.    | Human Rights in Constitutional Law                       | SR. Bansali            |
| 7.    | Constitutional Documents of Pakistan                     | Safdar Mahmood         |
| 8.    | The Leading Cases in Constitutional Law                  | A.G. Chaudhry          |



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## **PAPER: CRIMINOLOGY (100 MARKS)**

### Section-I (25 Marks)

#### I. Introduction

Basic concepts used in understanding crime, criminality and criminal behaviour.

#### II. Understanding Criminology

Definition, meaning and scope of criminology; Criminology and criminal law; Crime as social problem; Deviance, Sin Vice, Evil, Norms, Values; Security (Physical, Social, Economic)

#### III. Crime and Criminals

Occasional criminals, Habitual criminals, Professional criminals, White-collar crime, Organized crime, corporate crimes.

#### IV. Crime and Criminality: Theoretical Perspectives

Early explanation of criminal behavior

- Biological Theories; Psychological Theories; Sociological Theories.
- Social Disorganization theory
- Strain theory
- Social Control theory
- Learning theory
- Labeling Theory
- Islamic perspective on deviance and crime.

### Section-II (25 Marks)

#### V. Juvenile Delinquency



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Meaning, definitions (Behavioral Vs Legal), Juvenile delinquent Vs status offender, Official statistics of juvenile delinquency

## VI. Juvenile Justice System

- Role of police
- Juvenile court process:
  - pretrial, trial and sentencing
- Role of prosecutor, defense counsel, juvenile judge, juvenile probation officer
  - Juvenile correctional institutions; probation and non-punitive alternatives

## VII. The Criminal Justice System:

- Police and its role
- Trial and Conviction of Offenders
- Agencies: formal and informal
- Criminal courts: procedures and problems
- Role of prosecutors
- Prisons, Probation and Parole

## VIII. Punitive and Reformatory Treatment of Criminals

Corporal punishment, Imprisonment, Rehabilitation of criminals.  
Section-III (25 Marks)

## IX. Criminal Investigation

Principles of criminal investigation, Manual of preliminary investigation, Intelligence operations, Data base investigation, Electronic investigation, Forensic Investigation



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## X. Techniques of Investigations

Gathering information from persons, Interviewing and interrogation techniques, Criminal investigation analysis,

## XI. Legal and Ethical Guidelines for Investigators

Stop and frisk operations, Arrest procedures, Search and seizure.

## XII. International Policing and Criminal Justice Monitoring Organizations

UNAFEI, INTERPOL, EUROPOL, UNODC, UNICEF, IPA, etc.

## Section-IV (25 Marks)

## XIII. Modern Concepts in Contemporary Criminology

- Terrorism, Radicalism and War on Terror
- Media's representation of Crime and the Criminal Justice System
- Modern Law Enforcement and Crime Prevention
- Intelligence-led Policing
- Community Policing
- Private Public Partnership
- Gender and Crime in Urban and Rural Pakistan
- Crime and Urbanization, Organized Crime and White-Collar Crime
- Human Rights Abuses and Protection, especially of Children; Women and Minorities; The role of civil society and NGOs



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- Money-laundering
- Cyber Crime
- Role of NAB, FIA, ANF

## SUGGESTED READINGS

S.No.	Title	Author
1.	New Perspectives in Criminology	Conklin, J.E
2.	Criminal Interrogation and Confessions.	Fred, E.I., John, E.R., Joseph, P.B. and Brian, C.J.
3.	Theoretical Criminology	George B. Vold, Thomas J. Bernard, Jeffrey B. Snipes
4.	Modern Criminology: Crime, Criminal Behavior and its Control.	Hagan, J.
5.	Juvenile Delinquency: An Integrated Approach	James, B.
6.	Security Studies: An Introduction	Paul, D.W.
7.	Crime, Justice and Society: An Introduction to Criminology	Ronald, J.B., Marvin, D.F. and Patricia, S.
8.	Juvenile Delinquency: Theory, Practice, and Law	Seigel, L.J.
9.	Crime Prevention: Theory and Practice	Stephen, S.

### Suggested Websites

10. International Society of Criminology (ICS): <http://www.isc-sic.org>
11. American Society of Criminology (ASC): <http://www.asc41.com/>
12. British Society of Criminology



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(BSC): <http://www.britsoccrim.org/13>. European Society of Criminology (ESC): <http://www.esc-eurocrim.org/14>.

International Police Executive Symposium (IPES); <http://www.ipes.info/15>. Asian Criminological Society (ACS): <http://www.ntpu.edu.tw/college/e4/acs/home.php16>. Asian Association of Police Studies (AAPS): <http://www.aaps.or.kr/17>.

Campbell Library: <http://www.campbellcollaboration.org/library.php18>.

UNAFEI (Japan): <http://www.unafei.or.jp/english/19>. Pakistan Society of Criminology (PSC): [www.pakistansocietyofcriminology.com20](http://www.pakistansocietyofcriminology.com20). South Asian Society of Criminology and Victimology (SASCV): <http://www.sascv.org/>





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## **PAPER: ECONOMICS (200 MARKS)**

### I. Micro Economics

#### Paper-I (100 Marks)

Consumer behaviour, Determination of market demand and supply i.e. concept of elasticity of Demand & Supply, Static, Comparative Static Analysis, Distinction between partial and general equilibrium analysis (basic level), theory of the Firm, Producer's equilibrium, Pricing of the factors of production

### II. Macro Economics

Basic Economic Concepts, National Income Accounting, Consumption Function, Multiplier, Accelerator, Component of Aggregate Demand, Labour Demand and Supply, Un-Employment, Determination of equilibrium level of income and output (at least with reference to two or three "schools of thought"), Inflation.

### III. Money and Banking

Functions of Money, Quantity Theory of Money, The Fisher and Cambridge Formulations, Systems of note issue, Credit Creation, Functions of Central Banks, Instruments of Credit Control, Distinction between Goals, Operational & Intermediate Target of Central Banks Policy, Concept of Reserves, Liquidity Premium, Term Structure of Interest Rate, etc; Transmission Mechanisms of Monetary Policy, Theory of Liquidity Preference.



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TVM, Capital Structure, Capital Restructuring, IS-LM Analysis and The role of Central Bank, Money Demand and Supply.

## IV. Public Financing

Government expenditure, Sources of Government Revenue, Privatization, Taxes and non- taxes, Incidence of different taxes, Public Debt, Objectives, methods of repayment, Deficit financing, General Equilibrium Analysis, Welfare Economics, Fiscal Policy.

## V. International Trade

Theories of comparative advantage and Factor Endowments, Trade & Growth, Colonialism, Imperialism and International Trade, Trade Restrictions, Economic Integration, Trade Policy, Balance of Payments, Foreign Exchange, International Monetary system, Custom Unions.

## VI. Economic Development

Concepts of development, Human development, Historical growth process and Development, Theories of development, structural issues of development, Income distribution and poverty, sectoral (agricultural, Industry, trade and fiancé) issues and development, environment and development.

Paper-II (100 Marks)

(Economics of Pakistan)



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I. Definition and Measurement of Development: Characteristics of under development, rethinking on the concept of development: Growth vs. Redistributive justice, Absolute and Relative Poverty, Basic Needs Approach, Sustainable Development, Environmental Degradation & other Issues.

II. Planning Experience of Pakistan: A critical evaluation of the strategy of economic planning, governance & Institutions.

III. Agricultural Development in Pakistan: Changes in Agricultural Policies over plan periods, Major Monetary and Fiscal measures to promote Agricultural development, Green Revolution Strategy and its implications for growth and redistribution, Land Reforms and changes in the Tenure System 1950–1980, Cooperative Farming, Rural Development.

IV. Industrial Development in Pakistan: Early industrialization strategy, Creation of Financial and Development Institutions, Major monetary and fiscal measures to promote industrial development, changing role of public sector over the plan periods, Evaluation of Nationalization Policy, Concentration of industrial income and wealth, Evaluation of Import Substitution Policy and Export led Growth Strategy in Pakistan.

V. Role of Foreign Trade and Aid in Economic Development : Trends in Pakistan's Balance of Payments, Terms of Trade, Changes in direction of trade, Trends in Pakistan's major exports and imports, Causes of significant changes in the trends, the role of migration and remittances in Pakistan's economy, costs and



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benefits of Foreign Aid, Role of Foreign Investment.

VI. Privatization, Denationalization, Deregulation: conceptual and operational aspects. International comparisons. Pakistan Experience of Privatization.

VII. Interest Free Banking in Pakistan

VIII. Energy Policy of Pakistan

IX. Social Sector Development in Pakistan

X. Major Issues in Pakistan Economy: Energy crisis, Corruption, Bad governance, External debt accumulation and dependency, Unemployment, Income inequality, Inflation, Fiscal and trade deficits, Balance of payment issues, Shortage of irrigation water.

## SUGGESTED READINGS

- | S.No. | Title  | Author               |
|-------|--|----------------------|
| 1.    | A Text-book of Economics Theory                      | Stonier & Hague      |
| 2.    | Economic Development                                 | Todaro, M.P.         |
| 3.    | Under Development and Agrarian Structure in Pakistan | Khan, Mahmood Hassan |
| 4.    | Economic of Islam                                    | Ahmed, S.M.          |
| 5.    | Economics  | Paul A. Samuleson    |
| 6.    | Factors in Economic Development                      | Cairncross, A.K      |
| 7.    | Foreign Aid Theory and Practice in Southern Asia     | Wolf,                |



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Jr. DC

8. Government Finance—An Economic Analysis Due John, F.
9. Introduction to International Economics Snider, D.A, Paul Krugman, Donimich Salvatore
10. Microeconomic Ferguson, C.E. & Gould, J.P., Nicholson, Mankiw
11. Macroeconomics Rudigar Dorubush and Stanley Fisher Blanchard
12. Population Problems Theompson & Lewis
13. Studies in Economic Development with Special Reference to Pakistan Ghouse, A.
14. History of International Trade Findlay, R and O' Rourke, K
15. Colonialism and Modernization Karl Marx Anchor books
16. On Colonialism Karl Marx and Frederick Engels,
17. Economic Survey of Pakistan Government Publication



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## **PAPER: ENGLISH LITERATURE (100 MARKS)**

The paper is divided into six components along with the marks allocation for each component.

### I. Essays: (10 Marks)

- Bertrand Russell (The Conquest of Happiness)
- George Orwell (Politics and the English Language; The Prevention of Literature)
- Ralph Waldo Emerson (The Transcendentalist; Self-Reliance)

### II. Short Stories: (10 Marks)

- Somerset Maugham (The Lotus-Eater)
- G.K.Chesterton (A Somewhat Improbable Story)
- O'Henry (The Gift of the Magi)

### III. Poetry: (20 marks)

- William Wordsworth (Resolution and Independence; Lines Composed Few Miles Above, Tintern Abbey)
- John Keats (Ode to a Nightingale; Ode to Autumn)
- Lord Alfred Tennyson (Ulysses; The Lady of Shalott)
- Yeats (A Dialogue of Self and Soul; The Second Coming)
- Eliot (The Wasteland; Love Song of J. Alfred Prufrock)
- Philip Larkin (Maturity; Continuing to Live; The Trees)
- Wallace Stevens (A Postcard from the Volcano; Continual Conversation with a Silent Man; Dry Loaf) OR Walt Whitman (As I Ponder'd in Silence; Are You the New Person Drawn Toward Me?; This Moment Yearning and Thoughtful)



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## IV. Drama: (20 marks)

- Shakespeare (Hamlet; King Lear; Twelfth Night)
- William Congreve (The Way of the World)
- Shaw (Pygmalion; Heartbreak House )
- Harold Pinter (The Caretaker)
- Samuel Beckett (Waiting for Godot)
- Eugene O'Neill (Long Day's Journey into Night)

## V. Novels: (20 marks)

- Thomas Hardy (Far from the Madding Crowd)
- D.H. Lawrence (Sons and Lovers)
- George Orwell (Nineteen Eighty-four)
- James Joyce (A Portrait of the Artist as a Young Man)
- Iris Murdoch (Under the Net)
- Nathaniel Hawthorne (The Scarlet Letter) or William Faulkner (The Sound and the Fury)

## VI. Literacy Theory & Criticism (20 Marks)

- Structuralism
- Marxism
- Deconstructionism
- Psychoanalytic criticism
- Feminist criticism
- Postcolonial Criticism

Note: The texts are mentioned in brackets in front of each author's name. However, for the component on "Literary Theory and Criticism" and for understanding poetry and drama,



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particularly 20th century poetry and Drama, following readings are suggested:

## SUGGESTED READINGS

S.No. Title Author

1. The basics Literary Theory. (Second edition). Routledge. Bertens, H. (2008).
2. Literary Theory: An Introduction. (Anniversary Edition). Eagleton, E. (2008).
3. A New Handbook of Literary Terms. Mikics, W. (2007).
4. A Companion to Twentieth Century Poetry. Roberts, N. (2003).
5. A Reader's Guide to Contemporary Literary Theory. (Fifth edition). Selden, R., Widdowson, P., & Brooker, P. (2005)
6. Twentieth Century British Drama. Smart, J. (2001).
7. Modern Critical Views & Interpretations, ed: 80's and 90's editions. Harold Bloom (these include all range of authors and their works given above)
8. A Companion to 20th Century Drama Oxford: Blackwell. Krasner David. 2005.



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## **PAPER: ENVIRONMENTAL SCIENCE(100 MARKS)**

### **I. History of Environmental Thought**

Environment and Sustainable Development, History of Environmental Movements, Industrial and Agriculture Revolution, United Nations Conference on Human Environment 1972, Our Common Future 1987, Rio Summit 1992, Agenda 21, World Summit on Sustainable Development 2002, Rio Summit-II, 2012, Millennium Development Goals.

### **II. Sustainable Development Issues**

Population growth, Poverty, Biodiversity loss and its Conservation, Energy security (energy conservation and alternative energy resources), Urbanization and sustainable cities, Carrying capacity and ecological footprint. Food security and sustainable agriculture. Ecological restoration.

### **III. Interdisciplinary nature of Environmental Science**

Orientation on convergence of various social and natural sciences to evolve a new discipline of environmental science:

Environmental Biology, Environmental Chemistry,

Environmental Physics, Environmental Microbiology,

Environmental Toxicology,

Environmental Economics, Environmental Geology,

Environmental Geography,

Environmental Biotechnology, Environmental Sociology.

### **IV. Environmental Pollution**

Air Pollution, Water Pollution, Soil Pollution, Noise Pollution, Solid Waste, Water Logging & Salinity, Deforestation,



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Desertification, Eutrophication, Global and regional air pollution problems (Greenhouse effect, Global Warming/Climate Change, Ozone Depletion, Acid Rain).

## V. Climate Change

Climate Pattern at local, regional and global scale. Different types of climate including tropical and mid latitude climate, polar climates. Climate change processes, Drivers and Indicators of Climate Change, Effects of Climate Change on natural and societal systems. Carbon foot print. Climate change adaptation and mitigation, Clean Development Mechanism (CDM), REDD+. Global environmental politics on climate change: role of India, China and USA (Copenhagen Accord 2009).

## VI. Environmental Governance

Policy, legal and institutional frameworks for governance of environment in Pakistan: National Conservation Strategy of 1992, National Environmental Policy Act of Pakistan 2005, Environmental Protection Act of 1997, Pak-EPA (Review of IEE/EIA) Regulations 2000, Hospital Waste Management Rules 2005, Pollution Charge Rules, Sample Rules, Solid Waste Management Plan 2005, Hazardous Substances Rules 2005, National Drinking Water Policy 2009, Sanitation Policy, National Climate Change Policy 2012.

## VII. Global initiatives

Brief on some of the Multilateral Environmental Agreements ratified by Pakistan, Convention on Biological Diversity (CBD),



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Cartagena Protocol on Bio-safety, Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), Convention on Wetlands of International Importance Especially as Waterfowl Habitat (Ramsar Convention), Convention on the Conservation of Migratory Species (CMS), United Nations Framework Convention on Climate Change (UNFCCC), Kyoto Protocol to UNFCCC, Montreal Protocol on Substances that deplete the Ozone Layer, United Nations Convention to Combat Desertification (UNCCD).

## VIII. Environmental Assessment and Management

Environmental Impact Assessment, Strategic Environmental Assessment, Environmental Management Systems (ISO 14000), Occupational Health & Safety management systems (OHSAS 18000), Participatory Approaches to Environmental Management, Technological Approaches to Environmental Management, Approaches to Solid Waste Management, Disaster Risk Management, Pollution Control Technologies, Geographic Information System & Remote Sensing, Natural Resources Management.

## SUGGESTED READINGS

S.No. Title Author

1. Environmental Economics in Theory and Practice. Hanley, N. Shorgen, J, White, B
2. Industrial Safety Health and Environmental Management Jain R.K. Rao S.S



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3. Environmental Science: Earth as a living Planet, 9th ed.  
Botkin, D. Keller, E. 2014
4. Environmental Geology Facing the Challenges of Our  
Changing Earth Erickson, J
5. Environmental Geology. Keller A. Edward
6. Earth Science. Tarbuck. J. Edward Lutgens K. Frederick
7. Environmental Science: A Study of Interrelationship  
Enger ED, Smith, B.F
8. Basics of Forestry and Applied Sciences, Concepts and  
Theory Masood A.A Qureshi
9. Environmental Science: Working with Earth Miller. T.G
- 10 Disaster Management: A Disaster Manager's Handbook  
Carter N.W
- 11 Disasters and Development Cuny, F.C.
- 12 Disaster Management: Warning Response and Community  
Relocation Perry R.W. Mushkatel, A.H.
- 13 Energy: Crisis or Opportunity, An Introduction to Energy  
Studies Diana Schumacher
- 14 Environmental Geology Carla W. Montgomery
- 15 Environmental Health; Ecological Perspective Kathryn  
Hilgenkamp
- 16 Official Website of Govt. of Pakistan  
[www.environment.gov.pk](http://www.environment.gov.pk)
- 17 Official Website of UN Environment Programme.  
[www.unep.org](http://www.unep.org)



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## **PAPER: EUROPEAN HISTORY (100 MARKS)**

### **Part -I (Marks 50)**

- I. The French Revolution and Napoleonic Era (1789-1815)
  - The causes of French Revolution
  - The consequences of Revolution
  - Napoleon rise to power
  - Creation of Empire
  - The Continental system
  - The fall of Napoleon
- II. The Concert of Europe (1815-1830)
  - The Congress of Vienna
  - Metternich's Era
  - The Concert of Europe and Congress System
  - Balance of Power
- III. Forces of Continuity and Change in Europe (1815-1848)
  - Nationalism
  - Liberalism
  - Romanticism
  - Socialism
  - Industrial Revolution
  - Colonialism
  - Cosequences
- IV. The Eastern Question (1804-1856)
  - The nature of the Eastern question
  - The Crimean War



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- Russo Turkish War 1877
- Consequences
  
- V. Unification of Italy
  - The effects of the revolution of 1848
  - The obstacles to unification
  - Cavour and the unification of Italy
  - The Process of Italian unification (1859-1871)
  
- VI. Unification of Germany
  - The rise of Bismarck
  - Diplomatic events
  - The Austro-Prussian War (1866)
  - The Franco- Prussian War (1870-1871)
  - The triumph of Bismarck and process of unification
  
- VII. The Origins of First World War (1890-1914)
  - Formation of Alliances and Counter Alliances
  - The Balkans War (1912-1913)
  - The outbreak of the World War 1

Part -II (Marks 50)

- VIII. The First World War and its aftermath
  - The War (1914-1918) and peace treaties
  - The League of Nations



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## IX. Dictatorships in Europe

- Fascism in Italy under Mussolini
- Hitler, Nazism and Germany
- Russia, Marxism Revolution and its working under Stalin
- Great Depression and its effects on Europe
- Appeasement
- The Arm race
- The Sudetenland Crisis (1938)
- The distraction of Czechoslovakia (1939)

## X. The Second World War and its Effects on Europe

- The Main Events of the War
- Impact of war

## XI. Post- War Europe

- The post war settlements
- The United Nations
- Economic Recovery of Europe, Marshal Plan
- German Question
- NATO
- Decolonization

## XII. Cold War Europe (1955-1991)

- Effects of cold war
- Warsaw Pact (1955)
- The European Economic Community (EEC)
- Nuclear Non-Proliferation Agreement
- Charles De Gaulle and France
- Spread of communist regimes in Europe



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## XIII. Europe (1991-2012)

- The Gorbachev and Disintegration of USSR
- The reunification of Germany
- The Balkan crisis of 1990s
- The European Union
- Role of Europe in War against terrorism
- Global Economic Crisis and Europe

## SUGGESTED READINGS

- | S. No. | Title   | Author              |
|--------|---|---------------------|
| 1.     | A History of Modern Europe (1789-1991)                                      | H.L. Peacock,       |
| 2.     | The Struggle for Mastery in Europe: 1848-1918                               | A.J.P Taylor,       |
| 3.     | The Cold War: Ideological Conflict or Power Struggle                        | Normali A. Grabener |
| 4.     | The USSR: A Share History   | Vladimir Polrtayen, |
| 5.     | Development in Russian Politics   | Stephen White,      |
| 6.     | Mastering Modern European History   | Stuart Miller,      |
| 7.     | A Text Book of European History   | by Southgate, G.W.  |
| 8.     | Aspects of European History 1789-1980.                                      | Stephen J. Lee      |
| 9.     | Europe Since Napoleon   | Thompson, D.        |
| 10.    | European Union: European politics.  | Tim Bale.           |
| 11.    | Modern Europe in the Making from the French Revolution to the Common Market | Fasal, G.           |
| 12.    | The Norton History of Modern Europe   | Gilbert, F.         |
| 13.    | The Origins of the Second World War   | Taylor, A.J.P.      |



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14. The Rise and Fall of Great Powers. Paul Kennedy.





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## **PAPER: GENDER STUDIES(100 MARKS)**

- I. Introduction to Gender Studies
  - Introduction to Gender Studies
  - Difference between Gender and Women Studies
  - Multi-disciplinary nature of Gender Studies
  - Autonomy vs. Integration Debate in Gender Studies
  - Status of Gender Studies in Pakistan
- II. Social Construction of Gender
  - Historicizing Constructionism
  - Problematizing the category of “Sex”: Queer Theory
  - Is “Sex” socially determined, too?
  - Masculinities and Femininity
  - Nature versus Culture: A Debate in Gender Development
- III. Feminist Theories and Practice
  - What is Feminism
  - Liberal Feminism
  - Radical Feminism
  - Marxist/Socialist Feminism
  - Psychoanalytical Feminism
  - Men’s Feminism
  - Postmodern Feminism
- IV. Feminist Movements
  - Feminist Movements in the West. First Wave, Second Wave and Third Wave Feminism. United Nation Conferences on Women, Feminist Movements in Pakistan.



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## V. Gender and Development

- Colonial and Capitalistic Perspectives of Gender
- Gender Analysis of Development Theories; Modernization Theory, World System Theory, Dependency Theory, Structural Functionalism.
- Gender Approaches to Development: Women in Development (WID), Women and Development (WAD), Gender and Development (GAD); Gender Critique of Structural Adjustment Policies (SAPs).
- Globalization and Gender

## VI. Status of Women in Pakistan

- Status of Women's health in Pakistan
- Status of Women in Education
- Women and Employment
- Women and Law

## VII. Gender and Governance

- Defining Governance
- Suffragist Movement
- Gender Issues in Women as Voters
- Gender Issues in Women as Candidates
- Gender Issues in Women as Representatives
- Impact of Political Quota in Pakistan

## VIII. Gender Based Violence

- Defining Gender Based Violence
- Theories of Violence against Women
- Structural and Direct Forms of Violence



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- Strategies to Eliminate Violence against Women

## IX. Case Studies of:

- Mukhtaran Mai
- Mallala Yousaf Zai
- Shermin Ubaid Chinoy

## SUGGESTED READINGS

S.No. Title Author

1. Theories of Women Studies Eds., Bowles. Gloria and Renate D. Klein
2. Introduction: Theories of Women Studies and the Autonomy/ Integration Debate in Theories of Women Studies. Bowles G and Renate, K.
3. The State of the Discipline of Women Studies in Pakistan in Social Sciences in Pakistan Saigol, Rubina
4. The State of Women Studies in Pakistan in Journal of Asian Women Studies Bari, Farzana
5. Women's Law in Legal Education and Practice in Pakistan. Shaheed, F. and Mehdi, R. (ed.) (1997)
6. Locating the self: Perspectives on Women and Multiple Identities. Khan, N.S. et al.(ed.) (1998)
7. The Social Construction of Gender Lorber, Judith
8. Queer Theory Lorber, Judith
9. Gender,USA, Harriet Bradley(2013)
10. Women of Pakistan: Two Steps Forward, One Step Back. Mumtaz,Khawar& Shaheed, Farida(1987)
11. Feminism and its Relevance in South Asia Saeed K,



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Nighat & Bahsin, Kamla

12. Feminist Thoughts Tong, Rosemarie

13. Reversed Realities Kabeer, Naila

14. Gender Planning and Development Moser, Caroline

15. Electoral Politics: Making Quotas Work For Women.  
Hoodfar, Homa & Tajali, Mona (2011)

16. The Gender face of Asian Politics Ayaz, Aazar &  
Fleschenberg, Andrea (2009)

17. Performance Assessment of Women Parliamentarians in  
Pakistan Bari, Farzan (2002)

18. Base line Report: Women's Participation in Political and  
Public Life Zia, Shahla & Bari, Farzana. (1999)

19. Freedom from Violence Schuler, Margarte (1992)

20. Human Rights Commission of Pakistan Report



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ALHUMDULILAH 1000+ SUCCESS STORIES



## **PAPER: GEOGRAPHY (100 MARKS)**

Part -I (Marks 50)

Physical Geography

I. Factors controlling landform development; endogenic and exogenic forces; origin and evolution of the earth's crust; physical conditions of the earth's interior; geosynclines; continental drift; isostasy; sea-floor spreading; plate tectonics; mountain building; volcanicity; earthquakes; concepts of geomorphic cycles; landforms associated with fluvial, arid, glacial, coastal and Karst cycle; groundwater.

II. Elements and Factors of climate, structure and composition of atmosphere, insolation, temperature, Pressure belts of the world; Heat budget of the earth; Atmospheric circulation: planetary, monsoon and local winds; Air masses and Fronts; Hydrological cycle; Types of condensation and precipitation; Factors of global distribution of precipitation.

III. Origin of oceans and seas, Characteristic features of the ocean basins, temperature, salinity distribution cause and effects, Ocean floor deposits, their characteristics and classification, Ocean circulation, Waves, currents and tides, their nature, causes and effects.

IV. Factors of climate and Environmental change. Transformation of nature by man; environmental degradation and conservation; Nature and Types of pollution. Problems caused by pollution, Global Warming, Global Environment



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ALHUMDULILAH 1000+ SUCCESS STORIES



Patterns, Environmental Hazards and Risk Management.

Part -II (Marks 50)

Human Geography

V. Origin and Diffusion of Culture, Geographic patterns of culture, Classification of Languages, World Distribution of Languages, Indo-European Languages, Origins of Religions, Diffusion of Religions, Global Distribution, Regional conflicts, Ethnicities and Nationalities, Ethnic Conflicts, Ethnic Diversity in the World, Factors of Ethnic Cleansing, Ethnic Cleansing in the World, Development Indicators, Economic Indicators, Social Indicators, Health Indicators, Development through Trade, Impacts of development Indicators.

VI. Factors effecting Agriculture, Subsistence Agriculture and population growth, Commercial Agriculture and Market Forces, Sustainable Agriculture, Types and Distribution of Agriculture, Factors of Industrial locations, The Industrial Revolution, Industrial Theories, Distribution of Industries and Industrial Estates, Renewable Resources, Recycling Resources, Sustainable resources.

VII. Factors of Population Growth, Components of Change, Population Structure, The Demographic Transition, World distribution of Population, Over and under Population threats and their consequences, Models of Internal Structure of Cities, World Urban Patterns, Settlement Theories, Patterns and Problems within urban areas.



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VIII. Politics, Geography and Political Geography, State as a Politico-Territorial Phenomenon, State, Nation and the Nation-State, World Politics and International Relations, Geopolitics of uneven Development and Globalization of Capital, Geography of Tourism and Recreation, The demand for tourism and recreation, The supply for tourism and recreation, The impact of tourism and recreation: (Socio- economic impacts, Physical-environmental impacts), Global patterns in health and diseases, Models in medical geography, Recent issues and developments.

## SUGGESTED READINGS

S.No. Title Author

1. Discovering Physical Geography Hoboken: John Wiley & Sons, Inc. 2nd ed. Alan F. Arbogast (2011).
2. Introducing Physical Geography. Hoboken: John Wiley & Sons Alan Strahler, (2011).
3. Atmosphere, Weather and Climate (7th ed.). London: Clays St. Davis. Barry, R. (1998).
4. McKnight's Physical Geography A Landscape application 10th ed PHI Learning, New Delhi. Darrel Hess (2012).
5. Text Book of Population Geography, Random Publications, New Delhi. Dr. Martin Ardagh (2013).
6. Atmosphere, Climate and Change. New York: Scientific American Library Graedel, T. (1995).
7. An Introduction to Oceanography. Johnson H. (1996).
8. Economic Geography, Random Publications, New Delhi. Philip Emeral (2013).
9. Essentials Australia. of Physical Geography



# CSS PMS MENTOR

ALHUMDULILAH 1000+ SUCCESS STORIES



- 8th ed Robert E. Gabler & James F. Petersen (2007)
10. Geosystems: An Introduction to Physical Geography 7th ed. New Jersey: Pearson Prentice Hall Robert (2009), W. Christopherson
  11. Tourism Geography: Random Publications, New Delhi. Shweta Singh (2013).
  12. Elements of physical geography. New York. John Wiley. Strahler, A. N. (1998).
  13. Natural Disaster Management: New technologies and opportunities, The Icfai Uni. Press, Agartala. Subir Ghosh (2012).
  14. Economic Geography 3rd ed. PHI Learning, New Delhi. Truman A. Hartshorn (2010).
  15. Environmental Geography: Science Landuse William M. Marsh (2005). and Earth System 3rd ed. Hoboken: John Wiley & Sons
  16. Geography, Regions and Concepts. U.S.A: John Wiley and Sons, Inc. Blif, H. J. (1971).
  17. Human Geography. Canada: John Wiley & Sons, Inc. Blij, H. J. (2000).
  18. Population Geography Oxford: Pergamon Press. Clarke, J. I. (1965).
  19. Human Geography Cultural Society and Space. (5th ed.). New York: John Wiley & Sons. De Blij. H. J. (2003).
  20. Political Geography: The Spatiality of Politics. (3rd ed.). New Delhi: Tata McGraw-Hill Publishing Company Limited. Dikshit, R. D. (2001).
  21. Agricultural Geography: Issues and Applications. New Delhi: Gian Publishing House. Dube, R. S. (1987).



# CSS PMS MENTOR

ALHUMDULILAH 1000+ SUCCESS STORIES



22. Human Geography Landscape of Human Activities. (8th ed.). New York: Mc.Graw Hill Higher Education. Getis, Fellman. (2005).
23. An Introduction to Agricultural Geography. London: Hutchinson. Grigg, D. (1984).
24. The Geography of Tourism and Recreation (1st ed.). London: Routledge. Hall, C. M; & Page, S. J. (1999).
25. Economic Geography. New York: Prentice Hall, Inc. Englewood Cliffs. Hartshorne, T. A. & Alexander, J. W. (1988).
26. Geography & Health: A study in medical Geography. New Delhi: A.P.H. Publishing corporation. Izhar, F. (2004).
27. Geographies of Global Change. Blackwell Publishers Inc. Johnston, R. J. (1996).
28. Urban Geography, New York: McGraw Hill. Kaplan, Wheeler (2009).
29. Human Geography Place and Region in Global context. (2nd ed.) .New Jersey: Prentice Hall. Knox Paul L. (2001).
30. Agricultural Geography. London: Longman. Newbury, P. A. R. (1999).
31. Contemporary Human Geography. New Delhi: PHI Learning Private Limited. Rubenstein James M. (2010).
32. Tourism Geography (1st ed) London: Routledge. Williams, S. (1998).



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## **PAPER: GEOLOGY (100 MARKS)**

Part- I (50-marks)

### I. Introduction to Physical Geology

Introduction and scope of geology, its importance and relationship with other sciences; Earth as a member of the solar system: its origin, age, composition and internal structure; Introduction to rocks and minerals; Weathering and erosion; Isostasy; Geological Time Scale.

### II. Stratigraphy and Paleontology

Principles of stratigraphy; Laws of superposition and faunal succession; Geological time scale with divisions; Classification and nomenclature of stratigraphic units: lithostratigraphic units, biostratigraphic units and chronostratigraphic units.

Introduction to fossils and their significance; Modes of fossilization; Study of morphology, range and broad classification of major invertebrate phyla; Introduction to micro fossils; Introduction to Paleobotany; Introduction and classification of major vertebrates; Introduction to micropaleontology

### III. Mineralogy

Classification of minerals; Study of internal structure; Polymorphism and isomorphism; Paragenesis; Physical and optical properties of the common silicate and non-silicate mineral groups; Introduction to crystallography: elements of symmetry, study; normal classes of crystallographic systems.



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## IV. Structural Geology and Tectonics

Stress-strain concepts; factors controlling the mechanical behavior of materials; Folds; Faults; Joints; Foliation: terminology, classification and relationship with bedding; Lineation; Unconformity.

Plate tectonics theory; Geological evidences for continental drift; Sea-floor spreading; Oceanic ridges; Continental rifts; Intra-oceanic islands; Hot spot and Mantle plumes; Wilson Cycle; Tectonic framework of Pakistan.

## V. Petrology and Petrography

Introduction, classification and description of sedimentary rocks; Origin; transportation and deposition of sediments; Texture of sedimentary rocks; Sedimentary structures, their classification, morphology and significance; Composition, origin, differentiation and evolution of magma; Classification of igneous rocks; Mode of occurrences and types of extrusive rocks; Texture and structure of igneous rocks; Introduction to metamorphism; Types of metamorphism; Grades, zones and facies of metamorphism; Metamorphic diffusion and differentiation; Metamorphism in relation to Plate Tectonics; Differentiation between metamorphism and metasomatism. Introduction to Polarizing Microscope; Optical properties of opaque and non-opaque minerals in plane polarized light and under crossed nicol including metallic under reflected light; Description of optical properties of common rock-forming minerals.

## Part- II (50-marks)

### I. Introduction to Geophysics



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Definition and relation of geophysics with other sciences; Classification and brief description of various branches of geophysics such as seismology, geomagnetism, geoelectricity, tectonophysics, gravimetry, geo-thermy and geodesy; Introduction to various geophysical techniques for exploration of mineral deposits, oil and gas, subsurface water and engineering works.

## II. Sequence Stratigraphy

Introduction: history, concept and significance of sequence stratigraphy; Data sources: seismic reflections, outcrops, well logs, core and seismic facies; Sea level changes: their causes and effects, accommodation, eustatic and relative sea curve; Hierarchy of sequence stratigraphic elements; Types of sequences and systems tracts.

## III. Petroleum Geology

The nature and classification of petroleum hydrocarbons, their origin, migration and accumulation; Source sediments, reservoir rocks and trapping mechanism for oil and gas; Prospecting and exploration of oil and gas; Reservoir: characteristics, drive mechanism, energy and pressure maintenance; Secondary and enhanced recovery; Introduction to Sedimentary Basins of Pakistan.

## IV. Engineering and Environmental Geology

Rock and soil mechanics and its application in civil engineering; Rock mass characteristics; Geotechnical studies of rocks and soils; Geological factors and strength of rocks; Study of



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geological factors in relation to the construction of buildings' foundations, roads, highways, tunnels, dams and bridges; Application of geophysical methods for site investigation; Construction materials; Mass movement: their causes and prevention.

Introduction to environmental geology; Management of natural resources; Global climatic changes; Environmental controls for erosion, desertification and coastal degradation; Geological hazards such as floods, landslides, earthquakes, tsunamis, volcanoes, glaciers and shoreline processes; Remedial measures; Clean sources of energy; Industrial pollution, solid and liquid waste disposal, Introduction to environmental impact assessment and initial environmental examination.

## V. Mineral and Energy Resources

Introduction of geological exploration/prospecting. Brief description of hydrocarbons, coal, gemstones, copper, lead, zinc, iron, gold, chromite, manganese, salt, gypsum, bauxite, sulphur, barite, fluorite, clays, phosphorite, building and dimension stones; Industrial rocks and minerals; Radioactive minerals and rocks; Special reference to economic mineral deposits in Pakistan.

Origin, occurrence, and depositional environments of coal; Coal constitution and its kinds; Coal rank, grade and calorific value; Coal deposits of Pakistan with reference to Thar Coal; Geothermal energy resources of Pakistan.

## VI. Economic and Applied Geology

Metallic and Non-metallic mineral resources of Pakistan;



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Mineral-based industries. Overview of Recodec Copper; Radioactive minerals and their occurrences in Pakistan; Gemstones of Pakistan.

Geology of Reservoirs, dams, highways and tunnels; Major natural hazards and their impacts on the environment with special reference to Pakistan.

## SUGGESTED READINGS

- | S.No. | Title   | Author   |
|-------|---|--|
| 1.    | Physical Geology                                | Charles Plummer, David McGeary, Diane Carlson, |
| 2.    | Physical Geology                                | Charles (Carlos) Plummer, Diane Carlson        |
| 3.    | Principles of Physical Geology                  | Holmes, A                                      |
| 4.    | Principles of Paleontology                      | Raup, D.M. & Stanley, S.M                      |
| 5.    | Vertebrate Paleontology                         | Romer, A.S                                     |
| 6.    | Invertebrate Paleontology and Evolution         | Clackson, E.N.K                                |
| 7.    | Stratigraphy of Pakistan                        | Shah, S.M.I.                                   |
| 8.    | Principles of Sedimentology and Stratigraphy    | Boggs, S                                       |
| 9.    | Stratigraphy and Historical Geology of Pakistan | Kazmi, A.H and Abbasi, I.A                     |
| 10.   | Igneous and Metamorphic Petrology               | Best, M.G.,                                    |
| 11.   | Introduction to Optical Mineralogy              | Nesse, W.D                                     |
| 12.   | An Atlas of Minerals in Thin Section            | Schulze, D.J.,                                 |
| 13.   | Minerals and Rocks                              | Klein, C.,                                     |
| 14.   | Mineral Characterisation and Processing         | Mohapatra, B.K., Misra, V                      |
| 15.   | Principles of Mineralogy                        | William. H.B.,                                 |



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16. Mineralogy Perkins, D
17. Plate Tectonics - Geodynamics Moores, E.M. & Twiss, R.J
18. Structural Geology of Rocks and Regions George H. Davis, Stephen J. Reynolds, Charles F. Kluth
19. Structural Geology Twiss, R.J. & Moores, E.M.,
20. Carbonate Sedimentology Tucker, M.E. & Wright, V.P
21. Applied Sedimentology Selly, R.C.,
22. Petrology of Sedimentary Rocks Boggs Jr. S
23. Sedimentary Rocks Pettijohn, F.J
24. Introduction to Applied Geophysics Burger R.H., Sheehan, A. & Jones, C
25. Geophysical Methods in Geology Sharma, P.V
26. The Solid Earth: An Introduction to Global Geophysics Fowler, CMR
27. Igneous and Metamorphic Petrology Best, M.G
28. Petrology: Igneous, Sedimentary, & Metamorphic Blatt, H., Tracy, R. & Owens, D
29. Igneous and Metamorphic Petrology Best, M.G.,
30. Metamorphic Petrology Turner, F.J.,
31. Sequence Stratigraphy Emery, D. & Myers, K.J.,
32. Elements of Petroleum Geology Richard C. Selley,
33. Petroleum Geology North, F.K.,
34. Geology of Pakistan Bender, F.K. & Raza, H.A.,
35. Engineering Geology: Principles and Practice David George Price, Michael de Freitas
36. Engineering Geology F G Bell
37. Fundamentals of Engineering Geology Bell, F.A.G.,
38. Environmental Geology Montgomery, C.W.,



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39. Geology of Himalaya, Karakoram, Hindukush in Pakistan  
Tahirkheli, R.A.K.,
40. Geology of Pakistan Bender, F.K. & Raza,
41. Stratigraphy and Historical Geology of Pakistan Kazmi,  
A.H and Abbasi, I.A
42. Economic Geology: Principles and Practice Walter L.  
Pohl
43. Directory of Mineral Deposits of Pakistan Zaki, A.,
44. An Introduction to Ore Geology Evans, A.M.,
45. Metallogeny and Mineral Deposits of Pakistan Kazmi,  
A.H. & Abbas, S.G.,
46. Introduction to Mineral Exploration Moon, C.J., Whateley,  
M.K.G. and Evans, A.M.
47. Energy Resources Brown and Skipsy
48. Pakistan Energy Yearbook 2012 Ministry of Petroleum  
and Natural Resources Hydrocarbon Development Institute of  
Pakistan.  
Islamabad



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## **PAPER: GOVERNANCE & PUBLIC POLICIES (100 MARKS)**

### I. Basic Concepts of Governance:

- Origin of the term Governance
- Definition of Governance
- Definition of Good Governance
- Characteristics of Good Governance: Participation, Rule of law, Transparency, Responsiveness, Equity, Effectiveness and Efficiency, Accountability, Strategic Vision
- Collapse/Failure of Governance: its indicators diagnostic tools & Effects

### II. Governance Theories:

- Communitarianism
- Decentered Theory
- Libertarian Socialism
- Institutionalism
- Marxism
- Neoliberalism
- Rational Choice Theory
- Regulation Theory

### III. Governance Indicators laid by World Bank/IMF/UNESCO/UNDP/ADB, their Explanation & Application Level in Pakistan:

- Voice and Accountability
- Political Stability and Absence of Violence
- Government Effectiveness



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- Regulatory Authorities & their Quality
- Rule of Law
- Control of Corruption

## IV. Public Policy and Planning Institutions and their role in Planning

- Institutional Framework for Policy Coordination and Planning (ECNEC, Economic Coordination Committees of the Cabinet, The Federal Cabinet, The Secretaries Committee, The Prime Minister's Secretariat, The Planning Commission, The Finance Division, The Cabinet Division, and all Federal Ministries for their respective subjects)
- Role of Planning Commission in Policy and Planning
- Strategic Planning in Federal
- Provincial Government and Local Government
- Role of International Donors in Policy Formulation (IMF Document "Memorandum on Economic and Financial Policies 2013/14-2015/16," that underpins almost all public policies.)
- Public Policy and Implementation in Key Sectors (i.e., Health, Education).

## V. Accountability:

- General Introduction to Accountability and its concepts (Standards, Symbolism, regional and country-wide comparisons, a Review of Contemporary Studies)
- Types of Accountability- Political Accountability, Legal/Judicial Accountability, Administrative Accountability, Professional Accountability, Private vs. Public Accountability
- National Strategies against Corruption and remedial



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measures.

## VI. Bureaucracy:

- Introduction to the Concept of Bureaucracy (History, Neutrality, Steel Frame of the State, Negative Connotations Associated with the term)
- Theories of Bureaucracy (Max Weber, Marx, John Stewart Mill, Woodrow Wilson)
- Role of Bureaucracy in Pakistan (British legacy, civil-military relations, neutrality, dilution of neutrality, political allegiance, power, corrupting the incumbent, institutional degradation, constitutional guarantees, indexing of salaries with the CPI or lack thereof.)
- Public Administration and Code of Ethics (Effectiveness of the Estacode and the Code of Ethics, Comparison with other countries)

## VII. Public Policy Formulation and Implementation

- The Policy Making Process: How Policies are Made (Six including diagnosis and six stages with cautions to be exercise at each stage)
- Policy Implementation & Role of Bureaucracy (Training, Pervasive Inertia and how to break it, Lack of Decision Making, Culture of postponement and delays, Lack of resources, Political interference, Ability to say “No.”)
- Policy Analysis, The Quest for Solutions (Lack of research in policy analysis, Lack of coordination among departments, secrecy, openness)
- Policy Evaluation: Assessing The Impact of Public Policy,



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Program Evaluation- Success and failure of Govt.

## VIII. Multi-level Governance in Pakistan:

- Legislature: National Assembly, Senate, Provisional Assemblies
- Judiciary: Supreme Court, High Courts, Lower Courts
- Functioning of the offices:
- President of Pakistan,
- Prime Minister of Pakistan
- Office of Governor,
- Office of Chief Minister, Federal Cabinet, Cabinet Committees, Federal Secretariat, Provincial Secretariat
- Local Government system: District Government, Zila Government, Tehsil Government, Union Administration, Its Efficacy, Performance & Causes of Success or Failure

## IX. Federalism, Devolution and Decentralization

- Constituents participation in Federal Structure
- Principle of Subsidiarity in Public Service Delivery
- Decentralization Model of Kerala

## X. Role of Citizens in Governance

## XI. Good Governance in Islam

- Quranic Guidance on Good Governance
- Concept of Governance and its application in light of Quran; Sunnah and Fiqh.



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## SUGGESTED READINGS

- | S. No. | Titles   | Author  |
|--------|--|---|
| 1.     | Governance   | Anne Mette Kjær                                 |
| 2.     | Encyclopedia of Governance, Volume 2   | Mark Bevir                                      |
| 3.     | Implementing Public Policy: Governance in Theory and in Practice.                              | Hill M. and Hupe P.                             |
| 4.     | Accountability: Managing for Maximum Results   | Sam R Llyod                                     |
| 5.     | Guidance for Good Governance: Explorations in Qur'anic, Scientific & Cross-Cultural Approaches | Abdullah Ahsan& Stephen Bonsal Young            |
| 6.     | How Governments Work   | Muzaffar A. Ghaffaar                            |
| 7.     | Government and Administration in Pakistan  | Dr Jamil-ur Rehman                              |
| 8.     | Public Administration With Special Reference To Pakistan                                       | Dr Sultan Khan                                  |
| 9.     | Constitution of Islamic Republic of Pakistan,  | National Assembly of Pakistan                   |
| 10.    | Pakistan: Beyond the Crisis State  | Maleeha Lodhi                                   |
| 11.    | Power Dynamics, Institutional Instability and Economics Growth: The Case of Pakistan           | Akmal Hussain                                   |
| 12.    | Federalism and Rights  | Ellis Katz and G Allan Tarr                     |
| 13.    | Local Government Reforms in Pakistan: Context, Content and Causes                              | Ali Chmeema, Asim Ijaz Khawaja and Adnan Qadir  |
| 14.    | Economics Democracy Through Pro Poor Growth  | PonnaWignaraja, Akmal Hussain Susil Sirivardana |
| 15.    | Governance: South Asian Perspective  | Hasnat Abdul Hye                                |



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16. Governance, Economic Policy and Reform in Pakistan  
Abdus Samad
17. "Pakistan—Problems of Governance," 1993. Hussain, M.,  
Hussain. A.
18. "Pakistan's Predicament: The Diagnostic and the Debates  
within," Journal of Pakistan Vision, 13/1 (2012). Racine,  
Jean-Luc.
19. The Culture of Power and Governance of Pakistan—1947-  
2008, Oxford, 2010. Niaz, I.
20. "Legitimacy and the Administrative State: Ontology,  
History, and Democracy," Public Administration Quarterly, UC  
Berkeley, 2013. Bevir, M.,
21. Handbook of Public Policy Analysis Frank Fischer,  
Gerald J. Miller, and Mara S. Sidney,
22. Public Policy: Politics, Analysis, and Alternatives,  
4th Ed., CQ Press, 2012 Kraft, Michael E., Scott R. Furlong
23. Public Policy in An Uncertain World,: Analysis and  
Decisions, Harvard, 2013 Manski, Charles F.



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ALHUMDULILAH 1000+ SUCCESS STORIES



## **PAPER: HISTORY OF PAKISTAN & INDIA (100 MARKS)**

I. Muslim Rule and Heritage in India (712-1857): Political History Arrival, foundation and consolidation of Muslim rule in India, important rulers of the Slave Dynasty and the Mughals. The Spirit and legacy of Muslim civilization, Art, Architecture and literature, Public Administration under Muslim Rules. Sultans, Kings, Economic, Social, Judicial, Civil and Military system during the Muslim rule, Industry, trade and commerce under the Muslim patronage, Financial Administration.

II. British Rule in India: 1857-1947: British Imperialism, origin and growth of the East India Company, Causes and effects of downfall of the Mughal Empire in India, War of Independence in 1857: Causes and effects.

III. Constitutional and Political Reforms of the British Government (1858-1947) and growth of the Political Parties -Indian Congress

IV. Muslim Struggle for Independence: Role of Shah Wali Ullah, Syed Ahmad Shaheed and Sir Syed Ahmed Khan towards regeneration of the Muslim of South Asia, All India Muslim League, Partition of Bengal, Simla Deputation, Lucknow pact; Khilafat movement. Nahru Report Quaid-i- Azam's Fourteen Points.

V. Pakistan Movement: Allama Iqal's Allahabad Address 1930, and Round Table Conference. The Congress Rule in the



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provinces-1937-1939, Lahore Resolution 1940, various Missions and Plans for the partition of the South Asia. Founders of Pakistan: Quaid-i-Azam, Mohsin-ul-Mulk, Syed Amir Ali, Ali Brothes. Sir Agha Khan, Chaudhry Rahmat Ali, etc.

VI. History of Pakistan (1947- Todate): Pakistan's early Challenges—Quaid-i-Azam as Governor-General, various attempts at constitution making.

VII. Military in Politics: Ayub Khan, Yahya, Zia-ul-Haq and Pervaiz Musharaf regimes, Civil Military Relationship in Pakistan,

VIII. Separation of East Pakistan: Causes and Effects,

IX. Working of Democracy in Pakistan: Liaquat Ali Khan to Firoz Khan Noon (1947- 1958), Zulfikar Ali Bhutto's Period,(1971-1977),Benazir, Nawaz Sharif ,Revival of Democracy: 1988-1999, Restoration of Democracy (2008 to date), Role of Major Political Parties and Pressure Groups in the history of Pakistan.

X. Foreign Policy of Pakistan (1947-1999)

## SUGGESTED READINGS

S.No.	TITLE	AUTHOR
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1.	POLITICAL PARTIES IN PAKISTAN: 1947-1958	AFZAL,
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M. RAFIQUE, 1986

2. GOVERNMENT & POLITICS IN PAKISTAN AHMAD, MUSHTAQ, 1970

3. PARTY POLITICS IN PAKISTAN: 1947-58 AZIZ, K.K. 1976

4. INDIA'S STRUGGLE FOR INDEPENDENCE CHANDRE BIPIN, 1989

5. CONSTITUTIONAL DEVELOPMENT PAKISTAN IN CHAUDHARY, G.W. 1959

6. WAVELL AND THE DAYS OF THE RAJ: BRITAIN'S PENULTIMATE VICEROY IN INDIA, CHAWLA, MUHAMMAD IQBAL, 2011

7. NATIONALISM AND COMMUNAL POLITICS IN INDIA. HASSAN, MUSHIRUL 1991

8. THE CHARISMATIC LEADER: JINNAH THE CREATION OF PAKISTAN AND HAYAT, SIKANDAR, 2007

9. THE CULTURE OF POWER GOVERNANCE OF PAKISTAN 1947-2008 ANDILHAN NIAZ, 2011

10. MUSLIM CIVILIZATION OF INDO-PAKISTAN. IKRAM, SHAIKH MUHAMMAD, 1966

11. PAKISTAN'S FAILURE IN NATIONAL INTEGRATION JAHAN, ROUNAQ, 1972

12. CONSTITUTIONAL AND POLITICAL HISTORY OF PAKISTAN KHAN, HAMID, 2005

13. THE MUSLIM POLITICS IN PUNJAB QALB-I-ABID ,S, 1992

14. THE MUSLIM COMMUNITY OF THE INDO-PAK QURESHI ISHTIAQ HUSAIN, 1962

15. THE STRUGGLE FOR PAKISTAN QURESHI,



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ISHTIAQ HUSAIN, 1965

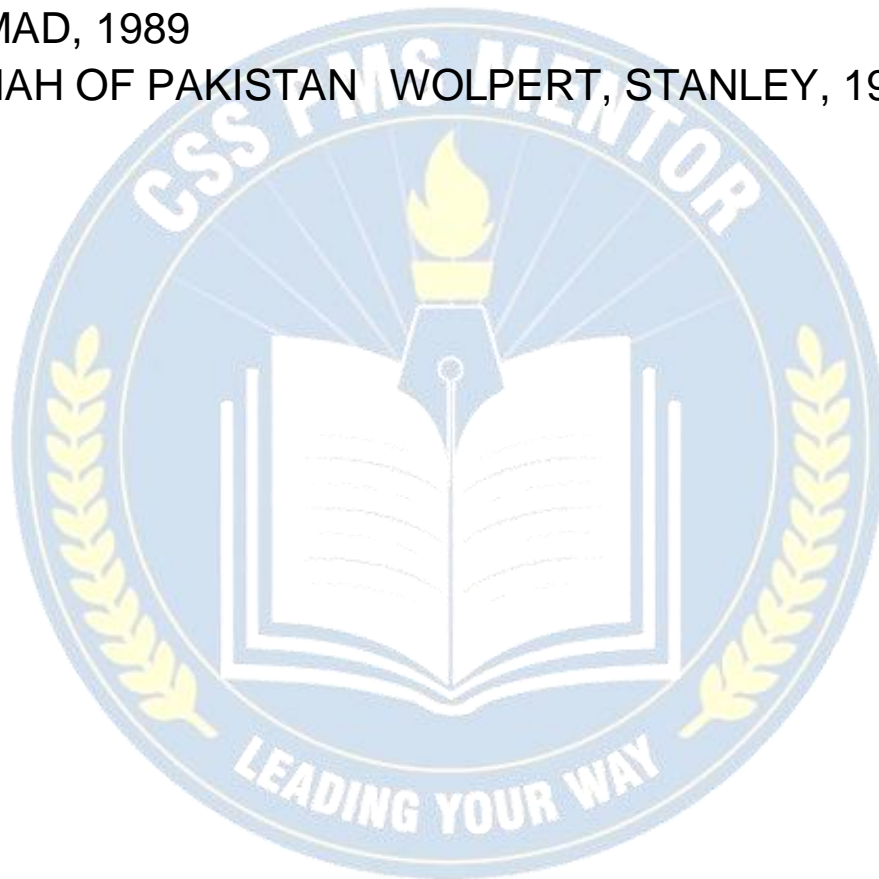
16. PAKISTAN: THE FORMATIVE PHASE SAYEED,  
KHALID BIN, 1968

17. THE MILITARY AND POLITICS IN PAKISTAN 1947-86  
RIZVI, HASSAN ASKARI

18. PAKISTAN: A NEW HISTORY TALBOT, LAN, 1999

19. POLITICS AND THE STATE IN PAKISTAN WASEEM,  
MOHAMMAD, 1989

20. JINNAH OF PAKISTAN WOLPERT, STANLEY, 1984





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## **PAPER: HISTORY OF USA (100 MARKS)**

### I. Introduction:-

- From ancient times to 1492
- Advent of the Europeans to British supremacy (1492-1606)

### II. USA as a British Colony (1606-1783).

### III. USA as an Independent Country (1783 - 1819)

### IV. Expansion of USA: From 13 to 50 States (1820 - 1949)

### V. Constitution of the USA: Salient Features

### VI. Civil War between the North and the East (1850 - 1869)

### VII. Industrialization and its emergence as one of the world powers (1870 -1916)

### VIII. USA's role in the Two World Wars (1914 - 1918 & 1939 - 1945)

### IX. Post 1945 world scenario and emergence of USA and USSR as the Two World Powers.

### X. American Role in patronizing UNO and International Organizations 1945 - 2012

### XI. American Role in Cold War and its emergence as the Sole



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Super Power (1945 - 1990).

XII. International Concerns of USA: An Overview.

XIII. The War on Terror: The Role of Pakistan and USA (2001 - 2012)

XIV. Global perceptions of the USA.

XV. Progressive Era: Reforms of Theodore Roosevelt and Woodrow Wilson,

XVI. The Great Depression and the New Deal

XVII. Civil Rights Movement

XVIII. United States' role in International Conflicts

XIX. US Presidential Election

XX. The US Congress: Role and Functions

XXI. Separation of Powers: Check and Balances

## SUGGESTED READINGS

S.No. Title Author

1. The Ideological Origins of the American Revolution, Bailyn. Bernard, 1992



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2. A Pocket History of the United States Commager, H. and Nevins, Allan, 1967
3. Painless American History, Curt Lader, 2009
4. The Politically Incorrect Guide to American History E.Woods, Thomas Jr., 2004
5. The Civil War: A Narrative Foote, Shelby, 1986
6. The American Political Tradition and the Men Who Made it. Hofstadter. Richard, 1948
7. US-South Asian Relations 1784 - 1940: A History Perspective, Iftikhar H. Malik, ed., 2006
8. The Tragedy of Great Power Politics Mearsheimer, John, 2001
9. Enlightenment Revolution and the Birth of Modern Nation Nelson, Craig, Thomas Paine, 2006
10. The USA: 1917 - 1980 Smith, Nigel, 2006
11. American Colonies: The Selling of North America Taylor, Alan, 2002
12. White Over Black: American Attitudes Toward the Negro 1550 - 1812 Winthrop D. Jordan,
13. The Complete Book of U.S. Presidents. William. A. De Gregorio, 2005
14. A people's History of the United States: 1492 to Present. Zinn, Howard, 1980



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## **PAPER: INTERNATIONAL LAW (100 MARKS)**

### I. Nature, Origin and Basis of International Law.

- The Emergence of International Law, Early European Authors, The Nation-State System, The Enforcement of International Law, The Effectiveness of International Law, The Weakness of International Law, The Juridical Basis of International law, The Future of International law and Material Sources of International Law.

### II. Relation between International Law and State Law.

- Article 38 of the Statute of International Court of Justice, Primary Sources of International Law, Subsidiary Sources of International Law, International Soft Law

### III. State in General and Recognition

- Personality and Statehood in International Law, The Subjects of International Law, Recognition of State and Government in International Law, Recognition of State and Government in National Law.

### IV. The Law and Practice as to Treaties

- The Vienna Convention on the Law of Treaties

### V. The Settlement of International Disputes.

- Negotiation, Mediation and Good Offices, Inquiry, Settlement by the United Nations, Conciliation, Arbitration, The International Court of Justice.



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## VI. International Humanitarian Law.

- International and Non-International Armed Conflicts, Non-International Armed Conflict, 'Combatant' and 'Protected Persons', Protection of Wounded, Sick and Ship-Wrecked Persons, POWs, Civilians, Limitations on the Conduct of War, Limits on the Choice of Methods and Means of Warfare.

## VII. The Use of Force

- The Law before the UN Charter, The Law after the Charter, The Collective Use of Force, The Right of Self-Defence.

## VIII. International Institutions

## IX. State Territorial Sovereignty.

## X. State Responsibility.

## XI. State Jurisdiction.

## XII. Succession to Rights and Obligations.

## XIII. The State and the Individual.

## XIV. The State and the Economic Interest.

## XV. Diplomatic Envoys, Counsels and other Representatives.

## XVI. War, Armed Conflicts and other Hostilities.



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XVII. Neutrality.

## SUGGESTED READINGS

S.No.	Title	Author
1.	International Law	Malcolm N. Shaw
2.	Principles of Public International Law	Lan Brownlie
3.	International Law	Dr. S.K. Kapoor
4.	Introduction to International Law	J.G. Starke, QC
5.	International Humanitarian Law	ICRC Pakistan
6.	Extradition Act, 1972	Nil
7.	The Diplomatic and Consular Privileges Act, 1972	Nil
8.	Territorial Waters and Maritime Zone Act, 1976	Nil
9.	U.N. Convention on Law of the Sea, 1984	Nil
10.	Cases and Materials on International Law	D.J. Harris



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## **PAPER: INTERNATIONAL RELATIONS (200 MARKS)**

Paper-1 (Marks-100)

### I. Introduction

- The Definition and Scope of International Relations.
- The Nation-State System
- Evolution of International Society

### II. Theories and Approaches

- The Classical Approaches-Realism and Idealism
- The Scientific Revolution-Behavioral Approach, System Approach,
- Neo-realism, Neo-liberalism.
- Post-modernism, Critical Theory, Feminism, Constructivism

### III. International Political Security.

- Conceptualization of security in the Twenty-First century
- Power. Elements of National Power
- Balance of Power
- Foreign Policy: Determinants, Decision Making and Analysis
- Sovereignty
- National Interest

### IV. Strategic Approach to International Relation.

- War: Causation of War, Total War, Limited War, Asymmetric Warfare, Civil War, Guerilla Warfare



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- Strategic Culture: Determinants of Pakistani Strategic Culture.
- Deterrence: Theory and practice with special reference to India and Pakistan

## V. International Political Economy.

- Theories in IPE: Mercantilism, Economic Liberalism, and Neo- Marxism
- Theories of Imperialism, Dependence and Interdependence discourse

## VI. International political community.

- Nationalism
- Internationalism
- Globalization

## VII. Approaches to Peace

- Diplomacy
- International Law
- Arms Control /Disarmament and Nuclear Non proliferation Regime

## VIII. International Political Institution

- United Nations
- International Monetary Fund (IMF)
- World Bank
- International Court of Justice



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Paper- II (Marks-100)

I. International Relation between two Wars

- Russian Revolution, Fascism, League of Nations, Second World War

II. Cold War

- Decolonization in Asia and Africa.
- Rise of United States and Soviet Union,
- Era of Tight Bipolarity, Détente and Loose Bipolarity, Revival of Cold War

III. Post Cold War

- End of History, Clash of Civilizations, Terrorism, Globalization, Unipolarity (New World Order) and Revival of Multi-Polarity

IV. International and Regional Organizations

- League of Nations, United Nations, Regional Organizations, EU, ASEAN, NAFTA, SAARC, SCO, OIC, ECO, WTO.
- Reforms in the United Nations, World Bank and the IMF

V. Foreign Policy of Selected Countries

- USA, Russia, China, UK, India, Pakistan and EU

VI. South Asia

- Peace-making and Peace-Building in South Asia: Analytical overview of peace processes between/among the states of South Asia especially between India and Pakistan.



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- India and Pakistan: Overview of agreements and accords, Indus Water Treaty; Composite Dialogue; Sir Creek & Siachen border, Visa and People to people contact; Trade; and Role of civil society
- Afghanistan: Cold war theatre; Soviet Invasion and Mujahedeen; Geneva Accord; Post Cold War situation---Rise of Taliban, AL-Qeada & 9/11; Operation Enduring Freedom; The Bonn Process- Withdrawal

## VII. Weapons of Mass Destruction

- Proliferation of Nuclear Weapons
- Nuclear Weapon States- Programs and Postures: Indian-Pakistan Nuclear Doctrines
- Nuclear Non -Proliferation Regime: International Atomic Energy Agency, Nuclear Non- Proliferation Treaty; Nuclear Supplier Group; Partial Test Ban Treaty; Comprehensive Test Ban Treaty; Fissile Material Cut-off Treaty
- Challenges of Non-Proliferation, Cooperation for Nuclear Energy
- The Missile Defence Systems and their impact on global strategic environment
- Militarization and Weaponization of Space.

## VIII. Contemporary Issues

- Euro-Atlantic Vs. Asia Pacific: Great Power Policies
- Kashmir Issue
- Palestine Issue

## SUGGESTED READINGS



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- | S.No. | Title  | Author                                      |
|-------|--|---|
| 1.    | World Politics: Trend and Transformation, Ninth Edition                                      | Charles W. Kegley JR. and Eugene R Wittkopf |
| 2.    | Understanding International Relations, Second Edition  | Chris Brown                                 |
| 3.    | Politics Among Nations   | Hans j. Morgenthau                          |
| 4.    | International Politics: A Framework for Analysis   | Holsti, K.J.                                |
| 5.    | Contemporary Security and Strategy   | Craig A. Snyder (ed.),                      |
| 6.    | The Globalization of World Politics: An Introduction to International Relations              | John Baylis and Stev Smith, eds             |
| 7.    | Games Nations Play, Seventh Edition  | John Spanier                                |
| 8.    | Essentials readings in World Politics  | Karen Mingst                                |
| 9.    | World in Collision: Terror and the Future of Global Order                                    | Ken Booth and Tim Dunne, ed                 |
| 10.   | Theory of International Politics   | Kenneth N. Waltz                            |
| 11.   | Theories of International Relations  | Scott Burchill and Andrew Linklater         |
| 12.   | The Cause of Wars  | Michael Howard                              |
| 13.   | Politics of Nuclear Weapons in south Asia  | Bhumitra Chakma, ed                         |
| 14.   | The Twenty Year's Crisis ; 1919-1939: An Introduction to the Study of International Relation | E.H. Carr                                   |
| 15.   | Bomb Scare: The History and Future of Nuclear Weapons  | Joseph Cirincione                           |
| 16.   | Arms Control: The New Guide to Negotiations and Agreements                                   | Jozef Goldblat                              |
| 17.   | Explaining Foreign Policy  | Llyod Jenson                                |



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18. The International Politics of Space Michael Sheehan
19. Foreign Policy Making Process: A Case Study of Pakistan  
Moonis Ahmar, ed
20. Planning the Unthinkable How New Powers Will Use  
Nuclear Biological And Chemical Weapons Peter R. Lavoy,  
Scott D. Sagan, and James J. Wirtz
21. Pakistan's Foreign Policy : An Historical Analysis S.M.  
Burke
22. International Relations: Politics and Economy in the  
21st Century William Nester
23. Foreign Policy and Political process William Wallace
24. Nuclear Risk Reduction Measures and Restraint Regime in  
South Asia Zafar Nawaz Jaspal
25. The India- Pakistan Military Standoff; Crisis and Escalation  
in South Asia (United States Zachary S. Davis, ed
26. Nuclear Pakistan: Strategic Dimensions Zulfiqar Khan, ed



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## **PAPER: ISLAMIC HISTORY & CULTURE (100 MARKS)**

Part -I (Marks 50)

I. Pre-Islamic Near East: An Overview

- Political, Social, Cultural, Religious and Economic Conditions in the Near East including Arabia before the dawn of Islam

II. The Dawn of Islam: The Prophetic Age (570-632)

- Biography of the Prophet Muhammad (PBUH): A Chronology of the Major Events in his Life
- Prophet Muhammad (PBUH) as a Motivator (Daa'i), Major points of his mission
- Prophet Muhammad (PBUH) as a Military Leader/Strategist
- Prophet Muhammad (PBUH) as a Political Leader/Head of the State

III. The Pious Caliphate (632-660)

- Caliph Abu Bakr (632-34): Apostasy Wars and Consolidation of Islam
- Caliph Umar b.Khattab (634-44): Establishment of Administrative System and Expansion of Muslim Empire
- Caliph Uthman b.Affan (644-56): Problems and Issues in the Muslim Community
- Caliph Ali b.Talib (656-660): Rise of Factionalism
- Abdication of Imam Hasan and Establishment of Umayyad Dynasty (660)



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## IV. Political System of Islam under the Prophet (PBUH) and the Pious Caliphate

- Nature of Islamic State
- Form of the Government
- Functions of the Islamic State
- Sovereignty of God
- Caliphate or Vicegerency of Man
- Appointment of Caliph
- Shura or the Consultative Body and its Role

## V. Institutional Development of the Muslim Civilization: The Early Phase (622-660)

- Development of Law and Judiciary in Early Islam
- Administration and State Conduct
- Defense in Early Islam
- Educational System
- Propagation of Islam
- Financial Administration
- Heritage and Culture

## VI. The Umayyads in Power (660-749)

- Political History of the Umayyad Dynasty
- Statecraft and Administration under the Umayyads
- Society and the Development of Arabic Literature.
- Cultural Achievements

## Part -II (Marks 50)

### I. The Abbasids of Baghdad (749-1258)



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- The Abbasid Revolution and the Establishment of the Abbasid Dynasty
  - Administrative Structure under the Abbasids
  - Development of Scientific Knowledge under the Abbasids
  - Muslim Philosophy under the Abbasids
  - Cultural Achievements
- II. Spain under the Muslim Rule
  - Spain under the rule of the Arabs and Moors (711-1492)
  - Political Fragmentation and the Fall of Granada (1492)
  - Muslim Contribution in the Realm of Culture, Arts and Architecture
- III. The Crusades against Islam
  - Major Encounters and Actors (1092-1228)
  - Impact of the Crusades on Muslim-Christian Relations
- IV. The Ottoman Empire
  - Rise and Fall of the Ottoman Turks (1299-1923)
  - State, Society and Economy under the Ottomans
  - Treatment with the Religious Minorities
  - Contribution towards Culture, Arts and Architecture
- V. Sufism as an Institution of the Muslim Society
  - Origin and Development of Sufism
  - Contribution of the Sufis to the Muslim Civilization
  - Relationship of the Sufis with the State and Political Authorities.
  - A Critical View of Sufism



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## VI. Islam and Modernity in Contemporary World

- The Emergence of Islamic Modernism
- Intellectual, Political, Economic, Social and Educational Aspects of Islamic Modernism
- Dissemination of Muslim Learning in the West

## SUGGESTED READINGS

- | S.No. | Titles  | Author                                       |
|-------|---|--|
| 1.    | Discovering Islam—Making Sense of Muslim History and Society            | Ahmad, Akbar                                 |
| 2.    | Islam: Ideology and Leading Issues                                      | Ali, Anwar.                                  |
| 3.    | The Spirit of Islam   | Ali, S. Ameer                                |
| 4.    | Aspects of Islamic Civilization: As Depicted in the Original Texts      | Arberry, A. J.                               |
| 5.    | The Preaching of Islam—A History of the Propagation of the Muslim Faith | Arnold, T.W.                                 |
| 6.    | The History of Philosophy in Islam                                      | De Boer, T. J.                               |
| 7.    | The History of Islamic Peoples  | Brockelmann, Carl (ed)                       |
| 8.    | Spanish Islam   | Dozy, R.                                     |
| 9.    | Studies on the Civilization of Islam                                    | Gibb, Hamilton A.R.                          |
| 10.   | The Religion of Islam, Vol. I & II                                      | Gaqwash, Ahmad A.                            |
| 11.   | Classical Islam: A History 600—1258                                     | Von Grunebaum, G.E                           |
| 12.   | The Cambridge History of Islam  | Holts, P. M., Lewis, Bernard, Ann KS Lambton |
| 13.   | Islam Resurgent: The Islamic World Today                                | Irving, T.B.                                 |
| 14.   | Islam: From the Prophet Mohammad to the Capture of                      |  |



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- Constantinople. Lewis, Bernard
15. Islam in History. Munir, Muhammad
  16. Islam and The Modern World Nadvi, Abu Hasan Ali.
  17. The Making of the Past: the Spread of Islam Rogers, Michael
  18. A History of Medieval Islam Saunders, J.J.
  19. Introduction to Islamic Civilization Savory, R.M. (ed)
  20. The Legacy of Islam Schacht, Joseph & Bosworth, C.E (eds)
  21. Islamic History—A New Interpretation AD 750–1055 Shaban, M.A.
  22. The Abbasid Revolution Shaban, M.A.
  23. A History of Muslim Philosophy Sharif, M.M.
  24. Muslim Thought :Its Origin and Achievements Nadvi Muhammad Hanif
  25. Studies in Islamic History Siddiqi, Amir Hasan.
  26. The Revolution which Toppled the Umayyads': Neither Arab nor Abbasid Agha, Saleh Said
  27. Sirat un Nabi Vol. I & II Nomani, Shibli
  28. Rasol-e-Akram ki Siasi Zindagi Hamidullah, Dr. Muhammad
  29. Khilafat-o-Malokiat Syed Abul Aala Maudoodi
  30. Ahd-e-Nabawi main Riyasat ka Nash o Irtaqa Ahmad Nisar
  31. Siddiq-e-Akbar Akbarabadi, Saeed Ahmad
  32. Al-Farooq Nomani, Shibli
  33. History of Islam Najeebabadi, Akbar Shah
  34. Painting in Islam Arnold, Thomas.
  35. Early Islamic Pottery Lane, Arthur



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- 36. Muslim Calligraphy Ziauddin, M.
- 37. Islamic Art & Architecture Kuhnle, E.
- 38. Daira Ma'arif e Islamia (relevant articles) University of Punjab
- 39. The Cultural Atlas of Islam Isma'il Raji al-Faruqi & Lois Lamya' al-Faruqi





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## **PAPER: JOURNALISM & MASS COMMUNICATION (100 MARKS)**

- .
  - I. Introduction to Mass Communication
    - Concept - Definitions, Need/Importance/Purposes, Types of Communication, Process of Communication, Basic Models.
    - Functions of a model, Evaluation of a model
    - Basic models in Mass Communication: -
      - o Lasswell's Model (1948)
      - o Shannon-Weaver model (1948)
      - o Osgood's model (1954)
      - o Schramm's model (1954)
      - o Newcomb's symmetry theory (1953)
      - o Westley-McLean's model (1976)
      - o Gerbner model (1956)
  - II. Mass Communication Theories
    - Normative theories of the press: Schramm's four theories and criticism on these theories
    - Media as agents of power
    - The Spiral of silence
    - Media Usage and gratifications
    - Media hegemony
    - Diffusion of innovations
    - Powerful effects model: hypodermic needle, magic bullet theory.
    - Moderate effects model: two-step and multi-step flow of communication.
    - Powerful media revisited: Marshal McLuhan's media



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determinism

### III. Global / International Communication

- The Historical Context of International Communication
- Globalization, technology, and the mass media
- Communication and Cultural imperialism
- Communication Flow in Global Media: Imbalance in the flow of information between North and South
- McBride commission and its recommendations.
- International Communication in the Internet Age: the new social media and its effects on developing world

### IV. Media and Society

- Mass media and social change
- Media as a social system: The balance between interrelation and interdependence
- Media freedom and its role for democracy,
- The functional approach to mass media: four social functions of the media
- Media as an awareness agent
- Mass media and social representation

### V. Mass Media in Pakistan:

- Media system in Pakistan: historical, chronological, and analytical review
- The system of journalism and the media system
- Employer-employee relations in Pakistani media
- Government-press relations
- Press in Pakistan: The newspaper industry, from mission to



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the market

- Electronic media: from total dependence to enormous power
- The new 24/7 television: uses and abuses
- The new radio: potential for change and the present performance.
- The question of freedom and responsibility

## VI. Development Support Communication

- Theories of development support communication with specific focus on the developing world
- The dominant paradigm of development: historical, analytical perspective
- The Alternative paradigm of development
- Small is beautiful: community development as a snowball effect.
- Globalization vs Localization
- Glocalization
- Social Marketing: how to infuse new ideas into a developing population

## VII. Public Relations:

- Concept of Public Relations
- Historical development of public relations: from press agency to PR
- Public relation in Pakistan
- Ministry of information
- Press Information Department (PID)
- Public relations and publicity



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- PR as a tool for governance
- Private PR agencies and their structure
- Basic methods of PR: press release, press note, press conference
- PR Ethics

## VIII. Media Laws and Ethics:

- History of Media Laws in Pakistan
- Development of media regulations from British colonial era to independent Pakistan
- Libel, Defamation and relevant portions of PPC
- PPO, RPPPO
- PEMRA: establishment, development, and operational mechanisms
- Press Council of Pakistan (PCP)
- Citizens Media Commission: need, present status, and reasons for inactivity
- Press Code of Ethics
- Inability of the media to develop a code of ethics as an institution
- The media's quest for freedom and its inability to self regulate.

## SUGGESTED READINGS

S No. Title Author

1. Broadcast Regulations: the German Example Metzger, Herbert. FES 1993.

2. Communication Models for The Study of Mass



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Communication, 2nd Ed McQuail, Dennis & Windhal, Swen, Longman, 1982.

3. Convergence Culture: Where old and new Media Blackwell publishing Ltd, USA.

4. Communication Theories: Origins, Methods and Uses in the Mass Media 5th Ed Werner J. Severin, James W. Tankard Jr. Longman, 1997.

5. Diffusion of Innovations 5th Ed Rogers, Everett M. Free Press 2003

6. Ethics in Journalism: A Reader on Their Perception in the Third World Kunczik, Michael (Ed.). FES 1999.

7. Handbook of International and Intercultural Communication 2nd Ed Gudykunst & Mody, Sage, 2001.

8. McQuail's Mass Communication Theory, 4th Ed Denis McQuail. Sage, 2000.

9. Media And Society into the 21st Century: A Historical Introduction Blackwell publishing Ltd, USA.

10. "Media / Impact" Wads Worth/ Thompson Learning, Belmont, CA

11. "Media Now: Communication Media in the Information Age" Wads Worth/Thompson Learning, Belmont, CA

12. News Media and Journalism in Pakistan Khan, Altaf. LAP Lambert Academic Publishing. June 2011.

13. News Media and Journalism in Pakistan and Germany (Ed.) Khan, Altaf. Peshawar, 2003.

14. Participatory Development Hasan, Arif, Oxford, 2010.

15. Political Communication in Britain: The Leader Debates, the Campaign and the Media in the 2010 General Election, (Ed) Palgrave McMillan, UK



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16. Political Communication in Asia, Roultag, NY.
17. "Precision Journalism: A Reporter's Introduction to Social and Science Methods", 4th Ed Rowman and Littlefield, Lanham, MD.
18. Report and Recommendations of the Media Commission, appointed by the Supreme Court of Pakistan, 2013 FES, Islamabad, 2013.
19. Reporting the Frontier: Media Capacity Building for Peace in Pakistan's Tribal Areas Khan, Altaf VDM Verlag Dr. Müllere.K. June 2011.
20. "Writing, Directing, and Producing Documentary Films and Videos", 3rd edition Carbondale: Southern Illinois Press, 2002.
21. "Directing the Documentary", 4th edition Focal Press, 2004.
22. "Documentary Storytelling: Making Stronger and More Dramatic Nonfiction Films", 2nd edition Focal Press, 2007.
23. Principles of Editing McGraw-Hill 1996
24. Journalism-Principles and Practices Vistaar Publications 2006
25. The Hand Book of New Media London: Sage
26. Applying Communication Theory for Professional Life: An Introduction (2nd Edition) London: Sage
27. Controversies in Contemporary Advertising Newbury Park: Sage Publications
28. "Public Relations-Writing & Media Techniques" Harper Collins College Publishers, NY
29. Telecommunications Policy in Pakistan" Telematics and Informatics



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30. "Guaranteeing Copyright- Media Manager's Guide to Pakistani Broadcast Law" Media Manager Companion Series Internews Pakistan
31. "Model Freedom of Information Act", 2001 Consumer rights Protection Commission of Pakistan





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ALHUMDULILAH 1000+ SUCCESS STORIES



## **PAPER: LAW (100 MARKS)**

- I. Definitions of Crime
- II. All Provisions of: i. Concept of arbitration, arbitration with or without intervention of court and in civil suits. ii. Establishment of Civil Courts with their Original & Appellate Jurisdiction.
- iii. The Code of Civil Procedure, 1908
- iv. Pakistan Penal Code, 1860
- v. Qanun-e-Shahadat Order, 1984
- vi. Criminal Procedure Code, 1898

## **SUGGESTED READINGS**

- | S.No. | Title                             | Author   |
|-------|-----------------------------------|--|
| 1.    | Pakistan Penal Code, 1860         | M. Mahmood   |
| 2.    | Criminal Procedure Code, 1898     | Shaukat Mahmood  |
| 3.    | Law of Evidence                   | Justice (R) Khalil ur Rahman Khan as adapted form Principles and Digest of the Law of Evidence by M. Monir |
| 4.    | Qanun-e-Shahadat Order, 1984      |  |
| 5.    | The Code of Civil Procedure, 1908 | Aamir Raza A. Khan   |
| 6.    | The Arbitration Laws in Pakistan  | M. Mahmood   |
| 7.    | Civil Courts Ordinance, 1962      | Nisar Ahmad Nisar  |



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## **PAPER: MERCANTILE LAW (100 MARKS)**

### I. Law of Contract, 1872

- Definitions
- Essentials of a valid contract (Proposal, Acceptance, Consideration, Free consent, Capacity of Parties, Not hereby declared to be Void)
- Kinds of Contracts (Valid, Void, Voidable, Not Voidable)
- Variety of Contracts (Contingent, Quasi, Bailment, Pledge, Indemnity, Agency)
- Performance of Contract, contracts that need not to be performed.
- Breach of contract, consequences of breach, damages for breach of contract.

### II. Sales of Goods Act, 1930

- Definitions
- Differences: Sale & agreement to sell, conditions and warranties, express & implied conditions.
- Doctrines: Caveat emptor, Nemo dat
- Right and duties of seller & buyer, rights of unpaid seller.

### III. Partnership Act, 1932

- Definitions
- Essentials of partnership
- Kinds of partnership (partnership at will, particular partnership, limited partnership)
- Rights and duties of Partners
- Relation of partners to third persons (implied authority of partner, doctrine of holding out)



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- Incoming and outgoing partners (minor)
- Dissolution of firms (compulsory, by agreement, by court, by notice on happening of contingencies)

## IV. Negotiable Instrument Act, 1881

- Definitions
- Types of negotiable instruments (Cheque, bill of exchange, promissory note)
- Parties to instruments, holder & holder in due course
- Rules (as to negotiation, presentment, payment & interest, discharge, noting and protest, compensation, acceptance, payment for honour)
- Special rules of evidence
- Special provisions relating to cheques & bills of exchange (dishonor, duties of banker)
- Provisions as to foreign instruments

## V. Competition Act, 2010

- Definitions
- Prohibition and abuse of (dominant position, certain agreements, discipline, marketing practices)
- Approval of mergers
- Competition commission of Pakistan (established, composition, term)
- Functions and powers of commission
- Provisions as to penalty and appeals.

## VI. Electronic Transaction Ordinance, 2002

- Definitions



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- Recognition and presumption of electronic transactions (writing, signature, stamp duty, attestation etc.)
- Electronic documents (attribution, acknowledgement, time and place of dispatch)
- Certification of service providers
- Application to acts done outside Pakistan
- Offences & Nature (false information, false certificates, damage to information system etc)

## VII. The Arbitration Law in Pakistan

- Definitions
- Appointment, number and removal of arbitrator
- Award by arbitrator
- Powers of court upon award (remittance, modification and setting aside of award)
- Types of arbitration (with or without intervention of court)
- Stay of legal proceedings in presence of arbitration agreement

## VIII. Consumer's Protection Act, 2006

- Definitions
- Consumer Commission (establishment, powers and functions, complaints before commission and disposal)
- Provisions as to compulsory recall of goods
- Duties and liabilities of provider of goods (return and refund of goods)
- Offences and penalties
- Contract between consumer and provider



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## IX. Companies Ordinance, 1984

- Definitions
- Types of Companies
- Fundamental papers of company (Memorandum of association, articles of association, prospectus)
- Transfer of shares and debentures
- Management and administration (promoters, share holders, directors, chief executive, auditors)
- Meeting's and proceedings (statutory, general, annual general meeting)
- Winding up (voluntary, by court)

## X. Electronic Fund Transfer Act, 2007

- Definitions
- Payment system and their operation (designation of payment system & revocation, real time gross settlement system, governance & operation arrangement)
- Payment instruments (designation, issuing and prohibition of instruments)
- Clearing and other obligations
- Supervisory Control of state bank
- Documentation of transfers
- Notification of error and liabilities of parties
- Law relating to action before court.

## SUGGESTED READINGS

S. No. Title Author

1. Law of Contract Agarwala, M. Mehmood



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2. Sales of Goods Act Pollock & Mulla
3. Bare Acts: Government of Pakistan
  - i) Contract Act, 1872
  - ii) Negotiable Instrument Act, 1881
  - iii) Sale of Goods Act, 1930
  - iv) Companies Ordinance, 1984
  - v) Arbitration Act, 1940
  - vi) Competition Act, 2010
  - vii) Electronic Transactions Ordinance, 2002
  - viii) Consumers' Protection Act, 2006
  - ix) Electronic Fund Transfer Act, 2007
4. Case Law Reading
  - i) Carlil vs. Carbolic Smoke Ball Co. (1893) 1 QB 256
  - ii) Pharmaceutical Society of Great Britain vs. Boots Cash Chemicals Ltd. (1952) 2 QB 795
  - iii) Curie vs. Misa (1875) LR 10 Ex 153
  - iv) Byrne & Co. vs. Van Tienhaven & Co. (1880) 5 CPD 344
  - v) Mohri Bibi vs. Dharmodas Ghose (1903) 30 IA 114
  - vi) Derry vs. Peeks (1889) 14 App. Cas 337
  - vii) Mannu Singh vs. Umadat Panday (1890) 12 ALL 523
  - viii) Coggs vs. Bernard (1703) 2Ld Raym 909
  - ix) Lumley vs. Wanger (1852) EW HC (Ch)J 96
  - x) Manni Devi vs. Ramayan Singh AIR 1985 Pat. 35
  - xi) Lachhman Joharimal vs. Bapu Khandu (1869) 6 Bombay High Court Reports 241
  - xii) Mischeff vs. Springett (1942) 2 KB 331
  - xiii) Watson vs. Coupland (1945) 1 All ER 217
  - xiv) Ashbury Railway Carriage & Iron Co. Ltd. Vs. Riche (1875) LR 7HL 653



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- xv) Lee vs. Lee's Air Farming (1960) 3 All ER420
- xvi) Salomon vs. A. Salomon & Co. Ltd. (1897) AC 22
- xvii) Royal British Bank vs. Turquand (1856) 6 E&B 327
- xviii) Ram Raja Ram vs. Dhirba Charan Jen AIR 1982 Ori 264
- xix) Badridas Kothari vs. Megraj Kothari AIR 1967 Cal 25
- xx) Hitachi Ltd. & others vs. Rupali Polyester & others (1998 SCMR 1618)
- xxi) Marflower Theatre Trust Ltd. Vs. HMRC (2007) STC 880
- xxii) Pickering vs. Bux (1812) 15 East 38
- xxiii) Liaqat Islam vs. State (2011 YLR 2280)
- xiv) Alamgir Khalid Chughtai vs. State (PLD 2009 Lahore 259)
- xv) United States vs. Forty Barrels and Twenty Kegs of Coca Cola, 241 U.S. 265 (1916)
- xvi) Hedley Byrne & Co. Ltd. Vs. Hella & Partners Ltd. (1964) AC 465



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ALHUMDULILAH 1000+ SUCCESS STORIES



## **PAPER: MUSLIM LAW & JURISPRUDENCE (100 MARKS)**

- I. The Sources of Islamic Law
  - The Quran
  - The Sunnah
  - Ijma
  - Qiyas
  - Ijtehad
- II. Principles of Islamic Jurisprudence
- III. Islamic Criminal Law
  - Hadd
  - Taz'ir
  - Qisas and Diyat
- IV. Islamic Family Law
  - Marriage
  - Dower
  - Divorce
  - Separation by Repudiation (Talaq)
  - Separation by Mutual Agreement (Khula)
  - Judicial Separation (Faskh)
  - Post-Divorce Maintenance
  - Child Custody
  - Succession
- V. Islamic Law of Contract



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VI. Islamic Banking and Insurance

VII. Islamic International Law

VIII. Islamic Law and Human Rights

IX. Dissolution of Muslim Marriages Act, 1939

X. Muslim Family Laws Ordinance 1961

## SUGGESTED READINGS

- | S.No. | Title  | Author                     |
|-------|--|----------------------------|
| 1.    | An Introduction to the Study of Islamic Law        | Dr. Hussain Hamid Hassan   |
| 2.    | Principles of Islamic Jurisprudence                | Mohammad Hashim Kamali     |
| 3.    | Theories of Islamic Law                            | Prof. Imran Ahsan Nyazee   |
| 4.    | Islamic Law of Contracts and Business Transactions | Tahir Mansuri              |
| 5.    | Family Law in Islam                                | Dr. Mohammad Tahir Mansuri |
| 6.    | Outlines of Islamic Jurisprudence                  | Prof. Imran Ahsan Nyazee   |
| 7.    | General Principles of Criminal Law                 | Prof. Imran Ahsan Nyazee   |
| 8.    | State and Legislation in Islam                     | Dr. Mahmood Ahmad Gazi     |
| 9.    | Mahomedan Jurisprudence                            | Abdur Rahim                |
| 10.   | Islamic Law of Inheritance                         | Hamid Khan, Advocate       |



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11. Munir” Principles of Muhammadan Law Munir  
Siddiqui

Ahmad





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## **PAPER: PASHTO (100 MARKS)**

- I. Origin of Pashto language, its dialects and alphabets
- II. Pashto Grammar
- III. General question on history of Pashto literature and literary movements in Pashto
- IV. Essay on prominent aspects of Pashto Culture, Historical and Literary personalities.
- V. Translation of unseen passages from Pashto in to English or Urdu.
- VI. Translation of unseen passages of English or Urdu into Pashto.
- VII. General Questions on evolution and criticism of Pashto Prose and Poetry.
- VIII. Pashto Classic Poetry
  - (i) Khoshal Khan Khattak (ii) Rehman Baba (iii) Abdul Hamid Baba
  - (iv) Ali Khan (v) kazim Khan Sheda
- IX. Pashto Modern Poetry
  - (i) Amir Hamza Khan Shinwari (ii) Ghani Khan (iii) Qalandar Momand (iv) Abdur Rahim Majzoob (v) Younas Khalil



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X. Pashto Folk Literature,  
(i). Tappa' (ii) Charbaita' (iii) Neemakai' (iv) Badala etc and  
Pashto proverbs,

## SUGGESTED READINGS

S. No.	Title	Author
1.	Life and Works of the Illustrious Khushal Khan Khattak	Dr. Khadeeja Feroz Ud Deen
2.	The Pathans	Sir Olaf Careo.
3.	Selected poems of Khushal Khan Khattak	Major Raverty.
4.	The Rowshanites and Pashto Literature	Dr. Muhammad Maghmoom

Yar



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## PAPER: PERSIAN(100 MARKS)

### PART-I (Marks-50)

I. Elementary Information about the Pre Islamic Persian Languages: Avesta, Old Persian and Pahlavi.

II. Origin and development of the new Persian Language (In this part Revivalist movement, Purist movement and the adaptation of foreign loan words need to be studied).

III. The advent and history of Classical Persian Literature from SAMANID's period to the Mushrootah Movement with special emphasis on the outstanding Persian prose writers and poets. (The Persian prose writers and poets from 4th century H to 10th century H).

IV. The contemporary Persian Literature with special emphasis on the New Poetry (شعر نو) and Fiction writing and their outstanding representatives.

V. A Short introduction to Persian Language and Literature, besides Iran, in Afghanistan, Tajikistan and Indo-Pakistan Subcontinent.

VI. Significant features of the grammar of the language as under:

In classical background, the four styles known as



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Khurasani, Iraqi, Hindi and Revivalist may be studied.

VII. A Short essay writing in Persian on literary and cultural themes.

VIII. Translation of simple English passage into Persian.

### PART-II (Marks-50)

This part will require first hand reading of the texts prescribed and questions will be designed to test the candidate's critical abilities.

#### TEXT SELECTION

##### 1. PROSE:

شمار	نام مصنف	نام کتاب
1	امام محمد غزالی	- کیمیای سعادت : در رعیت داشتن و ولایت راندن
2	علی بن عثمان بجویری	کشف المحجوب : باب التصوف
3	نظام الملک طوسی	سیاست نامه فصل ششم: اندر قاضیان و خطیبان و محتسب .....
4	سعدی شیرازی	گلستان : باب اول ، حکایت اول، ششم ، هفتم، چهاردهم ، نوزدهم ، بیست و دوم ، چهل و یکم باب دوم – حکایت هفتم ، بیستم

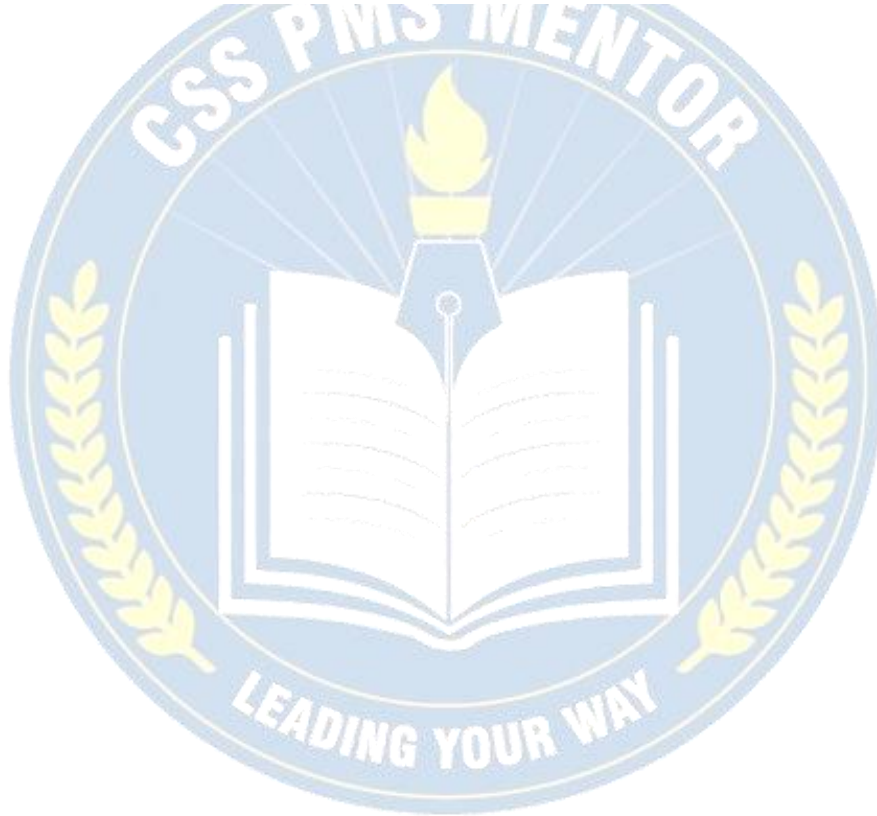


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شمار	نام مصنف	نام کتاب
		باب سوم - حکایت شانزدهم ، نوزدهم ، بیست و دوم باب چہارم - حکایت دوم باب ششم - حکایت چہارم باب ہفتم - حکایت سوم ، حکایت ششم
5	حسن سجزی	فوائد الفوائد : جلد دوم، مجلس ہشتم
6	جلال آل احمد	سہ تار (الکسانہ)





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## 2-POETRY

شمار	نام شاعر	نام کتاب
1	فردوسی	شاهنامه : <ul style="list-style-type: none"><li>در ستایش خرد</li><li>در ستایش دانگستری</li></ul>
2	مولانا رومی	مثنوی معنوی : <ul style="list-style-type: none"><li>نی نامه</li><li>داستان پیر چنگی با عمر رضی الله (دفتر اول)</li><li>خاریدن روستایی به تاریکی شیر را (دفتر دوم)</li><li>انکار کردن موسی پر مناجات چوپان (دفتر دوم)</li><li>اختلاف کردن در چگونگی و شکل پیل (دفتر سوم)</li></ul> دیوان شمس : <ul style="list-style-type: none"><li>بروید ای حریفان بکشید یار ما را</li><li>بنمای رخ که باغ و گلستانم آرزو ست</li><li>به روز مرگ چو تا بوت من روان باشد</li><li>بیا تا قدر بکنیگر بدانیم</li><li>خنک آن دم که نشینیم در ایوان من و تو</li></ul>
3	امیر خسرو	دیوان غزلیات (غزلیات با مطلع های زیر) <ul style="list-style-type: none"><li>دلم زو شب حدیث ناز می گفت</li><li>خبرم شده ست که مشب سر یار خواهی آمد</li><li>بیا نظاره کن ، ای دل که یار می آید</li><li>نمی دانم چه منزل بود شب جانی که من بودم</li><li>ای چهره زیبای تو رشک بتان آوری</li></ul>
4	حافظ	دیوان حافظ (غزلیات با مطلع های زیر) <ul style="list-style-type: none"><li>بیا که قصر امل سخت مسمت بنیاد است</li><li>رسید مرده که ایام غم نخواهد ماند</li><li>فانش می گویم و از گفته خود دلشادم</li><li>سألها دل طلب جام جم از ما می کرد</li><li>ای بی خبر بکوش که صاحب خیر شوی</li></ul>
5	غالب	دیوان غالب دهلوی (غزلیات با مطلع های زیر): <ul style="list-style-type: none"><li>به وادی که در آن خضر را عصا خفته است</li><li>آنان که وصل یار همی آرزو کنند</li><li>جلوه معنی به جیب و هم پنهان کرده ایم</li><li>بیا که قاعده آسمان بگردانیم</li></ul>

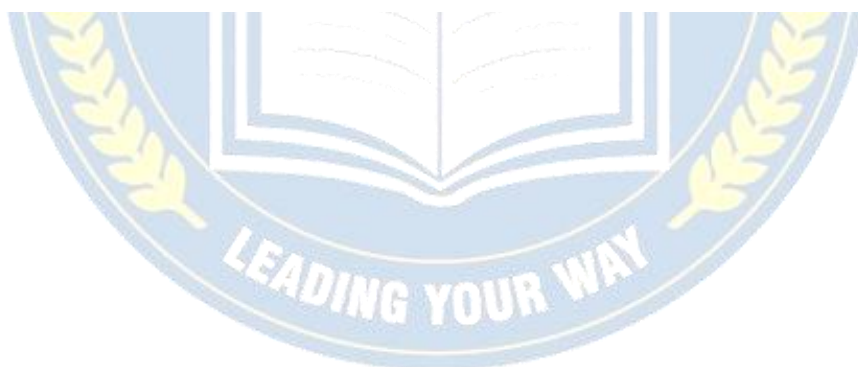


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شمار	نام شاعر	نام کتاب
6	علامہ اقبال	<p>مثنوی اسرار خودی :</p> <ul style="list-style-type: none"> <li>اسرار خودی تا مرحله سوم نیابت الہی بہ استثنای حکایت : در معنی اینکه افلاطون یونانی....</li> <li>حکایت : در حقیقت شعر و اصلاح ادبیات اسلامیہ .</li> </ul> <p>زبور عجم :</p> <ul style="list-style-type: none"> <li>من بندہ آزادم عشق است امام من</li> <li>چون چراغ لاله سوزم در خیابان شما</li> <li>ای غنچہ خوابیدہ چو نرگس نگران خیز</li> </ul> <p>ارمغان حجاز :</p> <ul style="list-style-type: none"> <li>غلامم جز رضای تو نجویم</li> <li>در آن دریا کہ او را ساحلی نیست</li> <li>اناالحق جز مقام کبریا نیست</li> <li>مسلمانی کہ داند رمز دین را</li> <li>قلندر میل تقریری ندارد</li> </ul>
7	نیما یوشیج	ای آدمها (نظم)
8	احمد شاملو	تا شکوفہ سرخ یک پیراھن ( نظم)
9	فروغ فرخ زاد	دلم برای باغچہ می سوزد (نظم)
10	شفیعی کدکنی	ہزارہ دوم آہوی کوی (نظم)





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## **PAPER: PHILOSOPHY (100 MARKS)**

### I. Introduction:

Definition, Nature and Scope of Philosophy

### II. Philosophical Methods:

Socratic Method (Socrates); Inductive Method (Bacon, Mill); Deductive Method (Aristotle, Descartes); Dialectical Method (Hegel); Fallibilistic Method (Popper)

III. Epistemology: Rationalism (Plato, Descartes, Spinoza); Empiricism (Locke, Berkeley, Hume); Transcendentalism (Kant); Intuitionism (Bergson)

IV. Ontology: Idealism (Plato, Berkeley); Representative Realism (Locke); Historical and Dialectical Materialism (Marx)

V. Ethics: What is morality? The challenge of cultural relativism; Does morality depend on religion? Psychological and ethical egoism: Virtue Ethics (Aristotle); Moral Absolutism (Kant), Utilitarianism (J.S. Mill); Social Contract Theory (Hobbes, Rawls).

VI. Muslim Thinkers: Al-Farabi, Ibn Sina, Al-Ghazali, Ibn Rushid, Ibn Khaldun, Shah Waliullah, Muhammad Iqbal.

### VII. Contemporary Philosophical Movements:

Existentialism (Heidegger, Sartre); Pragmatism (Peirce, James, Dewey); Neo-pragmatism (Rorty); Postmodernism (Lyotard, Foucault, Derrida)



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## SUGGESTED READINGS

- | S.No. | Title   | Author                             |
|-------|---|------------------------------------|
| 1.    | A History of Western Philosophy   | Bertrand Russell                   |
| 2.    | Philosophy: The Power of Ideas  | Brooke Noel Moore & Kenneth Bruder |
| 3.    | Elements of Moral Philosophy  | James Rachels                      |
| 4.    | Existentialism & Human Emotions   | Jean Paul Sartre                   |
| 5.    | The Postmodern Condition: A Report on Knowledge   | Jean-Francois Lyotard              |
| 6.    | Descartes to Derrida: An Introduction to European Philosophy  | Peter Sedgwick                     |
| 7.    | Continental Philosophy in the 20th Century  | Richard Kearney                    |
| 8.    | A Short History of Modern Philosophy  | Roger Scruton                      |
| 9.    | A History of Muslim Philosophy. Volume I & II   | M. M. Sharif                       |
| 10.   | A History of Islamic Philosophy   | Majid Fakhry                       |
| 11.   | The Reconstruction of Religious Thought in Islam  | Muhammad Iqbal                     |
| 12.   | Iqbal Mustansir Mir   |                                    |
| 13.   | Stanford Encyclopedia of Philosophy ( <a href="http://plato.stanford.edu">plato.stanford.edu</a> ).<br>Internet Resources |                                    |
| 14.   | Internet Encyclopedia of Philosophy ( <a href="http://www.iep.utm.edu">www.iep.utm.edu</a> ).<br>Internet Resources       |                                    |



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ALHUMDULILAH 1000+ SUCCESS STORIES



## PAPER: PHYSICS (200 MARKS)

### PAPER—I (Marks-100)

#### I. Mechanics

- Vectors: Dots, Cross and triple products, Gradient, divergence, curl and applications.
- Newtonian laws of motion: calculus based approach to kinematics, forces and dynamics, conservation law of energy; conservation of linear and angular momentum; Dynamics of rigid body; spin and precession; gyroscope; Gravitation; planetary motion and satellites; Kepler's laws; centripetal forces
- Special theory of relativity: Michelson-Morley experiment and Einstein's postulates; Lorentz transformation; time dilation and length contraction; equivalence of mass and energy.

#### II. Fluid Mechanics

- Surface tension; Viscosity; Elasticity; fluid motion and Bernoulli's theorem.

#### III. Waves and Oscillations, Optics

- Free oscillation with one and two degrees of freedom; forced and damped oscillations and phenomenon of resonance; Simple harmonic motion; Traveling waves and transmission of energy; Phase and Group velocity; standing waves; Basics of sound waves.



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- Reflection, Refraction, Interference, Diffraction and Polarization of waves; interferometer and Newton's rings; Diffraction Gratings and their resolving power; spectrometers. Electromagnetic wave equation; normal and anomalous dispersion; coherence, lasers and applications.

## IV. Heat and Thermodynamics

- Perfect gas, real gas and Van der Waals equation; Three Laws of Thermodynamics; internal energy; temperature; entropy; Thermal properties of simple systems; kinetic theory of gases; Maxwellian distribution of molecular velocities; Brownian motion; Transport phenomena. Classical Maxwell-Boltzmann Statistics and its application; Bose-Einstein and Fermi-Dirac Statistics.

## PAPER-II (Marks-100)

### I. Electricity and Magnetism

- Electric field due to point charges; Gauss' law; Electric potential; Poisson and Laplace's equations; Dielectric medium and Polarization; Capacitance; Moving charges and resulting magnetic field; Ampere's law; Magnetic properties of matter; Faraday's law of electromagnetic induction; Alternating current and RLC circuit; Poynting theorem and Poynting Vector. Maxwell's equations in integral and differential form; scalar and vector potential.



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## II. Modern and Quantum Physics

Waves and particles and De Broglie's Hypothesis; Operators and quantum states; observables; time dependent and independent Schrodinger equation; angular momentum; spin-1/2 particle in a magnetic field; wave mechanics; particle in a box; tunneling; one-dimensional harmonic oscillator; Heisenber's uncertainty relationship and indeterminacy based on commutation properties of operators; Bohr's theory and quantum numbers including electron spin; Pauli's exclusion principle; Spectra of simple systems with one or two valence electrons; photo electric effect; Compton scattering; pair production; Lande's g factor and Zeeman effect. Raman effect;

## III. Solid State Physics

Crystal lattice and structure, Bravais lattice, free electron model, Band theory and electron in a periodic potential, Fermi energy and density of states, n and p type semiconductors, physics of the transistor and MOSFET, dielectric properties, magnetic properties and origin of magnetism.

## IV. Nuclear Physics

Structure of Nuclei; Radioactivity,  $\alpha$ ,  $\beta$  and  $\gamma$  decay; Methods of detection of nuclear radiation, Mass Spectrometer; Accelerators; Phenomenon of fission; reactor and nuclear



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power; nuclear fusion and its applications; Elementary particles and their properties.

## SUGGESTED READINGS

S. No.	Title	Author
1	Perspectives of Modern Physics.	A. Beiser.
2	Fundamentals of Physics.	Halliday & Resnick
3	Introduction to Electromagnetic Fields and Waves.	D. Corson & P. Lorrain.
4	Heat and Thermodynamics.	D. Zemansky
5	Introduction to Quantum Mechanics	D. Griffiths
6	Modern Physics	Serway, Moses, Moyer.
7.	Solid State Physics	C. Kittel



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## **PAPER: POLITICAL SCIENCE (200 MARKS)**

PAPER I- (Marks - 100)

Part-A (50 Marks)

### I. Western Political Thought:

Plato, Aristotle, Machiavelli, Montesquieu, Hobbes, Locke, Rousseau, Kant, Mill, Bentham, Hegel, Marx, Lenin, Mao, Gramsci, Karl Popper, Pierre Bourdieu, John Rawls, Frances Fukuyama, Foucault, Derrida, Kierkegaard, Jean Paul Sartre, Rene Descartes.

### II. Muslim Political Thought:

Al-Farabi, Al-Mawardi, Ibn Rushd, Imam Ghazali, Ibn Taymiyyah, Nizam-ul-MulkTusi, Ibn Khaldun, Shah Waliullah, Allama Muhammad Iqbal, Jamaluddin Afghni, Rashid Rida.

Part -B (50 Marks)

### III. State System:

The nature and emergence of modern nation-state system, Islamic concept of state and Ummah.

### IV. Political Concept (Western and Islamic):

Sovereignty, Justice, Law, Liberty, Freedom, Equality, Rights and Duties, Human Rights, Political Authority and Power.



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## V. Comparative Politics:

Political Socialization, Political Culture, Political Development, Political Recruitment, Social Change, Civil Society, Violence and Terrorism in Politics, Gender and Politics, Women Empowerment.

## VI. Political Participation:

Political Change and Revolution, Elections, Electoral System, Public Opinion, Propaganda, Political Parties, Pressure Groups and Lobbies.

## VII. Political Institutions and Role of Government:

Legislature, Executive, Judiciary, Political Elites, Civil and Military Bureaucracy.

## VIII. Forms of Government:

Monarchy, Democratic, Dictatorship, Totalitarian/Authoritarian, Unitary, Federal, Confederation, Presidential and Parliamentary.

## IX. Political Ideologies:

Capitalism, Marxism, Communism, Socialism, Totalitarianism, Fascism, Nationalism, Islamic Political Ideology.

## X. Local Self Government:

Theory and practice of Local Self-Government with special reference to Pakistan, Comparative analyses of systems of local



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governance, Public Administration and Public Policy.

## PAPER-II (MARKS-100)

### Part-A (30 Marks)

#### I. Comparative and Analytical Study of the Political Systems:

Political System of U.S.A, U.K, France and Germany

#### II. Global and Regional Integration

Globalization and Politics, Global Civil Society, Regional politico-economic integration and organizational structure of the European Union, SAARC, ECO, International Financial Regimes IMF and WTO.

### Part-B (70 Marks)

#### III. Comparative and Analytical Study of the Political Systems: Political system of Turkey, Iran, Malaysia, India and China.

#### IV. Political Movements in India (Colonial Period):

Rise of Muslim Nationalism in South Asia and Pakistan Movement (with special reference to the role of Sir Syed Ahmed Khan, Allama Muhammad Iqbal and Quaid-i-Azam Mohammad Ali Jinnah)

#### V. Government and Politics in Pakistan: Constitution making from 1947 -1956, A comparative and critical analysis of 1956, 1962, 1973 Constitutions of Pakistan, Constitutional Amendments up-to-date, Federal Structure in Pakistan, and



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Central-Provincial relations after 18th amendment,  
Political Culture of Pakistan, Political Developments and the  
Role of Civil and Military Bureaucracy, Judiciary, Feudalism,  
Dynastic Politics, Political Parties and Interest Groups, Elections  
and Voting Behavior, Religion and Politics, Ethnicity and  
National Integration.

## VI. International Relations:

History of International Relations: Post World War-II (WW-II)  
Period. Foreign Policy of Pakistan: National Interests and Major  
Determinants i-e

- 1). Size/Geography
- 2). Economic Development
- 3). Security
- 4). Advancement in Technology 5). National Capacity
- 6). Political Parties/Leadership
- 7). Ideology
- 8). National Interest
- 9). Role of Press/Bureaucracy
- 10). Social Structure
- 11). Public Opinion
- 12). Diplomacy.
- 13). Foreign Policy-making Process in Pakistan

Also External Factors like International Power Structure,  
International Organizations, World Public Opinion and Reaction  
of other States.

## SUGGESTED READINGS

S. No.	Title	Author
--------	-------	--------



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ALHUMDULILAH 1000+ SUCCESS STORIES



1. Pakistan's Foreign Policy, 1947-2005 Abdul Sattar,
2. Democracy and Authoritarianism in South Asia Ayesha Jalal
3. Military, Civil Society and Democratization in Pakistan Akbar Zaidi
4. The Reconstruction of Religious Thought in Islam Allama Iqbal
5. A history of Pakistan and its origins Christophe Jaffrelot,
6. Greek Political Thought: Plato & Aristotle Eearnest Barker,
7. Political Thought From Plato to Present Ebenstein
8. Political Thought in Medieval Islam Erwin I.J. Rosenthal
9. Constitutional Developments in Pakistan G.W.Choudhury,
10. Comparative Politics Today: A Theoretical Framework Gabriel A. Almond, G.Bingham Powell,
11. Contemporary Political Analysis Garles Worth James,
12. A History of Political Theory George Holland Sabine
13. Studies in Muslim Political Thought and Administration H K Sherwani,
14. Modern Islamic Political Thought Hamid Enayat,
15. Constitutional and Political History of Pakistan Hamid Khan,
16. Politics Among Nations: The Struggle for Power and Peace Hans J. Morgenthau,
17. Military and Politics in Pakistan Hasan Askari Rizvi,
18. Pakistan Foreign Policy: An Overview 1947-2004 (PILDAT) Hasan Askari Rizvi
19. Pakistan and Geostrategic Environment : A Study of Foreign Policy Hasan Askari Rizvi



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ALHUMDULILAH 1000+ SUCCESS STORIES



20. International Politics: A Framework for Analysis Holsti, K.J.
21. Pakistan: A Modern History Lan Talbot,
22. 21st Century Political Science: A Reference Handbook John T. Ishiyama, Marijke Breuning,
23. Political Thought from Plato to Present Judd Herman,
24. The Political System of Pakistan, K.B. Sayeed,
25. Pakistan: A Political Study Keith Callard,
26. Pakistan: An Enigma of Political Development Lawrance Ziring,
27. Pakistan in the Twentieth Century Lawrance Ziring,
28. Pakistan: At the Crosscurrent of History Lawrance Ziring,
29. History of Muslim Philosophy M M. Sharif,
30. History of Local Government in Pakistan Masudul Hasan
31. Nationalism: The Nation-State and Nationalism Monserrat Guibernau,
32. Politics and the State in Pakistan Muhammad Waseem,
33. Government and Politics in Pakistan Mushtaq Ahmad
34. Making of Pakistan Noor ul Haq
35. Pattern of Government Samuel H. Beer & Adam B. Ullam
36. Political Thinkers: From Socrates to the Present Paul Kelly (Ed)
37. Introduction to Political Science, Islamabad, National Book Foundation, Rodee Anderson etc.
38. Pakistan's Foreign Policy : An Historical Analysis S.M. Burke
39. State & Society in Pakistan Shahid Javed Burki
40. Islami Riyasat Syed Abul Aala Maudoodi

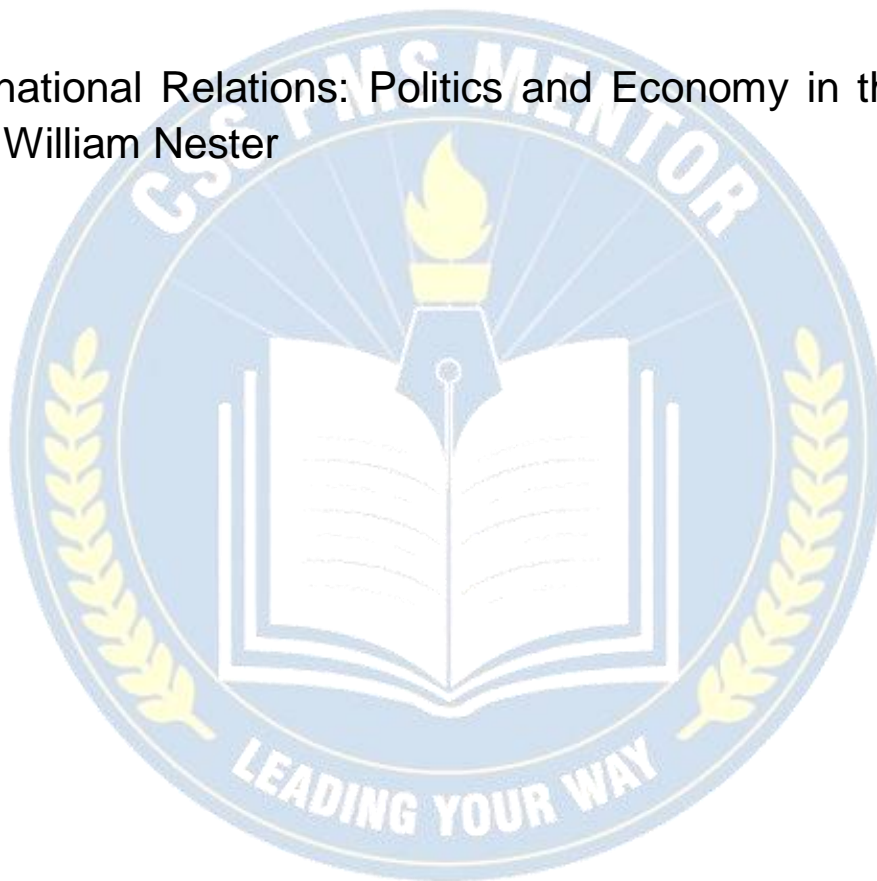


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41. Khilafat O Malookeyat Syed Abul Aala Maudoodi
42. Ethno National Movements of Pakistan Tahir Amin
43. Politics, Parties and Pressure Groups V.O. Key Jr.
44. Democratization in Pakistan Waseem, M.
45. Contemporary Political Philosophy: An Introduction  
Will Kymlicka
46. History of Political Theories (Three Volumes) Willaim A.  
Dunning,
47. International Relations: Politics and Economy in the 21st  
Century William Nester





# CSS PMS MENTOR

ALHUMDULILAH 1000+ SUCCESS STORIES



## **PAPER: PSYCHOLOGY (100 MARKS)**

I. Nature and Scope of Psychology: Definition and Scope, Psychology as a Science, Schools, Perspectives, and Models of Psychology, Recent Trends

II. Biological Basis of Behaviour: Nervous System, Neuron and its function, Central and Peripheral Nervous System, Endocrine System

III. Sensation and Perception: Sensory process, Perception, Gestalt Principles, Binocular and Monocular cues, Illusions and Extra Sensory Perception, Determinants of Perception

IV. Learning and Memory: Nature and Forms of Learning, Types of learning: Classical and Operant Conditioning, Reinforcement, Extinction, Discrimination, Punishment, Observational Learning, Theories of Learning, Types of Memory, Process of Memory, Forgetting, Theories of Memory

V. Motivation and Emotion: Homeostasis, Factors affecting Motivation, Biogenic and Social Motives, Measurement of Human Motivation, Theories of Motivation, Emotions, Types of Emotions, Physiological changes in Emotion, Theories of Emotions.

VI. Psychological Assessment: Attributes of Psychological Measures, Validity, Reliability, Item Analysis, Norms, Modern Test Theory, Selection and Training, Educational and Clinical



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Assessment, Ethical and Legal Issues in Assessment.

VII. Personality: Determinants of Personality, Factors in Development of Personality, Theoretical Perspectives, Personality Assessment and Techniques, Cross-Cultural Issues.

VIII. Intelligence: Theories of Intelligence, Types of intelligence (IQ, EQ), Assessing Intelligence

IX. Social Influence and Group Dynamics: Social Facilitation, Attribution, Conformity, Obedience, Altruism, Attitudes, Social Norms.

X. Developmental Psychology: Physical, Cognitive, Social and Emotional development in Childhood, Adolescence, Adulthood and Old Age

XI. Abnormal and Clinical Psychology: Concept and causes of Abnormality, Clinical Assessment and Intervention, Different disorders such as Schizophrenia, Mood disorder, Anxiety disorder, Personality disorder, etc. Psychological treatment including different Therapeutic instructions.

XII. Organizational/Industrial Psychology: Leadership styles, Decision making, Work motivation, Organizational Culture, Stress and Conflict at Work and its Management, Organizational Socialization, Job related Attitude, Sexual Harassment, Glass Ceiling, Human Computer interaction.

XIII. Health Psychology: Beliefs and Behaviour, Models of



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Health Psychology, Assessment and Intervention, Models of Stress, Chronic and Terminal Illness, Role of Social Support.

XIV. Forensic Psychology: Psychology and Law, Investigation, Confession, Eyewitness Testimony, Working with Offenders, Juvenile Delinquents, Drug Addicts, Sex Offenders etc.

## SUGGESTED READINGS

- | S.No. | Title   | Author                               |
|-------|---|--------------------------------------|
| 1.    | Applied Industrial/Organizational Psychology              | Aamodt, M.                           |
| 2.    | Introduction to Psychology                                | Atkinson R. C., & Smith, E. E        |
| 3.    | Social Psychology   | Baron, R. A                          |
| 4.    | Introduction to Forensic Psychology                       | Bartol, C. R                         |
| 5.    | Foundation of Physiological Psychology                    | Carlson, N. R.                       |
| 6.    | Introduction to Psychology: Gateways to Mind and Behavior | Coon, D., & Mitterer, J.             |
| 7.    | Development Across the Life Span                          | Feldman, R.                          |
| 8.    | Introduction to Psychology                                | Fernald, L. D., & Fernald, P.S       |
| 9.    | Introduction to Psychology                                | Atkinson & Hilgard's, Fredrickson, B |
| 10.   | Forensic Psychology                                       | Fulero, S. M., & Wrightsman          |
| 11.   | Foundation of Psychology                                  | Hayes, N                             |
| 12.   | Introduction to Psychology                                | Kalat, J. W                          |
| 13.   | Abnormal Psychology                                       | Kring, A. M                          |
| 14.   | Psychology  | Myers, D. G.                         |



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15. Psychology: Concepts and Connections Rathus, S.
16. Life Span Development Santrock, J. W.
17. Organizational Psychology Singh, P.





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## **PAPER: PUBLIC ADMINISTRATION (100 MARKS)**

### **I. Public Administration: Concepts, Approaches and Context**

Definitions; Role and Scope of Public Administration in Society; Issues in Public Administration Theory and Practice: Democracy versus Bureaucracy, Politics versus Administration, Efficiency versus Equity; Core Values of Public Administration: Rule of Law, Efficiency, Equity and Fairness, Responsiveness; Traditional Public Administration; New Public Management; New Public Service; Governance Approach to Public Administration; Islamic Concept of Public Administration; Historical roots of Public administration in Pakistan.

### **II. Public Administration: Classical and Contemporary Theories and Concepts**

Bureaucracy; Scientific Management; Human Relations Approach; Leadership, Motivation, Network Governance; Strategic Management; Public Choice Theory; Types of Organizational Structure; Organization of Federal, Provincial, and Local Government in Pakistan; Administrative Culture of Pakistan; Inter-governmental Relations at Federal and Provincial level in Pakistan.

### **III. Public Policy Planning, Implementation and Evaluation**

Strategic Planning and Management; Planning Process; Policy Analysis; Policy Implementation; Program Evaluation; Planning



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Machinery; Role of Donors and International Institutions in Public Policy and Management; Policy making and implementation in Pakistan.

## IV. Budgeting and Financial Management

Budget as a Policy Tool; The Budget as a Managerial Tool; Principles of Budgeting, Audit and Accounting in Government; Line-Item Budgeting; Performance Budgeting; Program Budgeting; Zero-Base Budgeting; Outcome-Based Budgeting. Planning and Budgeting in Pakistan.

## V. Managing Human Resources

Spoil system versus Merit System in Public Employment; Personnel versus Human Resources Management; Close system versus Open System of Public Employment; Functions of Human Resources Management; Implementation of HRM in Public Sector: Key Issues and Challenges.

## VI. Administrative Law

Meaning; Scope and Significance; Nature and Contents of Administrative Law, Administrative Ethics, Delegation of Authority and Legislation, Administrative Tribunals; Administrative Law in Pakistan.

## VII. Public Management Skills



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Planning; Decision Making, Conflict Management; Leading, Communication, Administrative Buffering; Managing Change; Managing Diversity; Stress Management; Delegation; Public Service Motivation; Creativity and Problem Solving; Issues of Public Management.

## VIII. The Civil Service of Pakistan

Historical Background of Civil Service, The Structure of civil Service; History of Civil Service Reform; Management of Civil Service; Institutional and Cultural Context of Civil Service; Role of Civil Service in Good Governance, Gender and Civil Service.

## IX. Organization of Provincial and Local Government

Governance Structure of Provincial Administration; Organization of Provincial Secretariat; Organization and Functions of Provincial Authorities and Agencies and their Relationship with Government Departments; Post-devolution Local Governance; Organization and Functions of District Government and Administration; Organization and Structure of City District Government; Issues and Challenges of Local Governance.

## X. Governance and Administrative Reforms

Theories of Administrative Reforms; Types of Administrative Reforms; Privatization; Regulation; De-regulation; Decentralization; Partnerships and Collaboration; Business Re-engineering, Quality Assurance; Administrative Reform in



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Pakistan.

## XI. Public Administration Accountability & Control

Bureaucratic Responsiveness; Representative Bureaucracy; Citizens Engagement in Public Service; Accountability & Control; Concept and Approaches to Public Accountability; Institutional Framework for Administrative Accountability; Legislative, Executive and Judicial Control over Administration; Administrative Corruption; Role of Civil Society in Good Governance; Media, Interest Groups and Civil Society Organizations; The Situation in Pakistan.

## XII. Public Administration and Development

Role of Public Administration in Development; Concept of Development Administration; Difference Between Development Administration and Development Management; Changing Role of Public Administration in Development, Issues and Challenges of Public Administration in Pakistan.

## SUGGESTED READINGS

S.No. Title Author

1. Public Administration 7th Ed Denhardt Robert
2. Public Administration: Understanding Management, Politics and Law 8th Ed David Rosenbloom
3. Public Administration 2nd Ed Caiden, Gerald E.
4. Public Administration for the twenty first century Cooper



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Et Al,

5. Organization Theory for Public Administration Harmon Michael & Mayer Richard
6. Public Administration and Public Affairs 12th Ed Nicholas Henry
7. Classics of Public Administration 7th Ed Shafritz Jay
8. Reinventing Government Osbourne D
9. Evolution of Pakistan's Administration System Braibanti, Ralph
10. Human Development in South Asia Mahbub-ul-Haq
11. Bureaucracy, basic books Wilson, James Q
12. Bureaucracy in Pakistan Kennedy, Charles H
13. Public Administration and Law Julia Beckett
14. Public Administration: A Comparative Perspective 6th ed. Ferrel Heady
15. Public Administration and Public Management: The Principle- Agent Perspective Jan-Erik Lane
16. Governance: South Asian Perspectives Hasnat Abdul Hye
17. Governance, economic policy and reform in Pakistan: Essay in political economy Abdus Samad
18. Government and Administration in Pakistan Jameelur Rehman Khan
19. Public Administration with special reference to Pakistan Sultan Khan
20. Public Administration in Asia Vol. I & II Srinivasan Kalyanaraman
21. Organizational Theory and the Public Sector Tom Christensen Per Laegreid
22. Public Administration in South Asia: India,



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Bangladesh and Pakistan  
Berman

Meghna Sabharwal, Evan M.





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## PAPER: PUNJABI (100 MARKS)

(15)	زبان تے زبان دی تاریخ:	
	1- پنجابی بولی دا پچھوکڑ	محمد آصف خاں
	2- پنجابی لسانیات	ڈاکٹر شہباز ملک
	3- پنجابی ادب دی کہانی	عبدالغفور قریشی
(15)	(ب) کلاسیکی شاعری:	
	1- شلوک فریدی	بابا فرید گنج شکر
	2- کافیاں شاہ حسین	شاہ حسین
	3- سی حرفی سلطان باہو	سلطان باہو
	4- کافیاں بلھے شاہ	بلھے شاہ
	5- ہیر	وارث شاہ
	6- سیف الملوک	میاں محمد بخش
(15)	(ج) جدید شاعری:	
	1- ترجمان	احمد راہی
	2- کچے کھوے	باقی صدیقی
	3- کل کلام	منیر نیازی
	4- مو آتے	ڈاکٹر فقیر محمد فقیر
	5- کلیات ہیر فضل کجراتی	مرتبہ: ڈاکٹر نبیلہ رحمان
	6- بلدا شہر	روؤف شیخ
(10)	(د) اسلامی ادب	
	1- مواعد نو شہ سہج بخش	مرتبہ سید شرافت نوشاہی
	2- چچی سرکار (سیرت)	حکیم عہد الکرم شمر
(15)	(ه) حقیقی نثر	
	1- ڈونگھیاں شاماں (افسانہ)	نواز
	2- چنے وے اوہلے (افسانہ)	فرخندہ لوچی
	3- دیوا تے دریا (ناول)	افضل احسن رندھاوا
	4- بول مٹی دیا باویا (ڈرامہ)	سجاد حیدر
	5- چونہڑاں (انٹائیپ)	ارشاد میر



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(15)

(و) تحقیق و تنقید

- |               |                     |
|---------------|---------------------|
| 1- جہانیاں    | شریف کجای           |
| 2- پور نے     | حسین شاہد           |
| 3- ساراں      | نجم حسین سید        |
| 4- ادب سمندر  | ڈاکٹر عصمت اللہ زہد |
| 5- پرکھ پرچول | عارف عبدالمبین      |

(15)

(ز) اصناف ادب و لوک ادب

(اصناف ادب) شاعری:

- |               |             |             |
|---------------|-------------|-------------|
| 1- شلوک       | 2- کافی     | 3- جنگ نامہ |
| 4- غزل        | 5- نظم      |             |
| 1- نثر:       | 2- ڈرامہ    | 3- افسانہ   |
| 4- انشائیہ    | 5- سفر نامہ |             |
| 1- (لوک ادب): | 2- ڈھولا    | 3- بولی     |
| 4- ٹپہ        | 5- لوری     | 6- دوہڑا    |

مجوزہ کتب:

- |   |                           |
|---|---------------------------|
| 1- پنجابی شاعراں دا تذکرہ                       | مولانا بخش کشتہ           |
| 2- اعلیٰ دی پنڈ                                 | اقبال صلاح الدین          |
| 3- پنجابی ادب دا ارتقاء                         | انعام الحق جاوید          |
| 4- پنجابی کے پانچ قدیم شاعر                     | شفیع عقیل                 |
| 5- پاکستانی پنجابی شاعری                        | شریف کجای                 |
| 6- وحدت الوجود تے پنجابی شاعری                  | سید علی عباس جلاپوری      |
| 7- ادب پر بیت                                   | ڈاکٹر عصمت اللہ زہد       |
| 8- رنگ سنگ                                      | ڈاکٹر اسلم رانا           |
| 9- تاریخ ادبیات مسلمانان پاکستان و ہند (جلد 13) | گروپ کیپٹن سید فیاض محمود |
| 10- پنجابی لوک گیتاں و موضوعاتی مطالعہ          | ڈاکٹر نوید شہزاد          |
| 11- نویں نظم                                    | ڈاکٹر سرفراز حسین قاضی    |



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## PAPER: PURE MATHEMATICS (100 MARKS)

### Section-A (40- marks)

#### I. Modern Algebra

- Group, subgroups, Lagranges theorem, Cyclic groups, Normal subgroups, Quotient groups. Fundamental theorem of homomorphism. Isomorphism theorems of groups, Inner automorphisms. Conjugate elements, conjugate subgroups. Commutator subgroups.
- Ring, Subrings, Integral domains, Quotient fields, Isomorphism theorems, Field extension and finite fields.
- Vector spaces, Linear independence, Bases, Dimension of a finitely generated space. Linear transformations, Matrices and their algebra. Reduction of matrices to their echelon form. Rank and nullity of a linear transformation.
- Solution of a system of homogeneous and non-homogeneous linear equations. Properties of determinants.

#### Section-B (40- marks)

#### II. Calculus & Analytic Geometry

- Real Numbers. Limits. Continuity. Differentiability. Indefinite integration. Mean value theorems. Taylor's theorem, Indeterminate forms. Asymptotes. Curve tracing. Definite integrals. Functions of several variables. Partial derivatives. Maxima and minima. Jacobians, Double and triple integration (techniques only). Applications of Beta and Gamma functions. Areas and Volumes. Riemann-Stieltje's integral. Improper



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integrals and their conditions of existences. Implicit function theorem.

- Conic sections in Cartesian coordinates, Plane polar coordinates and their use to represent the straight line and conic sections. Cartesian and spherical polar coordinates in three dimensions. The plane, the sphere, the ellipsoid, the paraboloid and the hyperboloid in Cartesian and spherical polar coordinates.

Section-C (20-marks)

### III. Complex Variables

Function of a complex variable; Demoiver's theorem and its applications. Analytic functions, Cauchy's theorem. Cauchy's integral formula, Taylor's and Laurent's series. Singularities. Cauchy residue theorem and contour integration. Fourier series and Fourier transforms.

### SUGGESTED READINGS

S.No.	Title	Author
1.	Advanced Calculus	Kaplan, W.
2.	Analytic Function Theory Vol.1	Hille, E.
3.	Calculus	Anton H., Biven I and Davis, S.
4.	Complex Analysis	Goodstein G.R.G.
5.	Complex Variables	Murray R. Spiegel
6.	Calculus with Analytic Geometry	Yusuf, S.M.
7.	Calculus and Analytic Geometry	Zia ul Haq



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8. Elements of Complex Analysis Pennisi, L.L.
9. Theory of Groups Majeed, A.
10. Mathematical Methods Yusuf, S.M.
11. Mathematical Techniques Karamat H.Dar
12. Mathematical Analysis Apostol, T.M.
13. The Theory of Groups Macdonald, I.N.
14. Topics in Algebra Herstein, I.N.





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**PAPER: SINDHI (100 MARKS)**

1. سنڌي ٻوليءَ جي قدامت
  - ❖ سنڌي ٻولي بابت عالمن جا نظريا.
  - ❖ سنڌي ٻولي جا اهم لهجا.
2. سنڌي لوڪ ادب
  - ❖ لوڪ گيت (سپرو، هو جمالو، لولي، مورو، وغيره)
  - ❖ لوڪ ڳائون
  - ❖ ڏور
  - ❖ ڳجهارت
  - ❖ ٻرولي
3. سنڌي ادب جا مختلف دور.
  - ❖ سومرا دور
  - ❖ سمان دور
  - ❖ ارغون، ترخان ۽ مغل دور
  - ❖ ٺهڙا دور
  - ❖ ٺٻرن جو دور
  - ❖ انگريز جو دور
  - ❖ پاڻ سٿان يعني موجوده دور
4. لاسو ل شاعر
  - ❖ قلندي قادن
  - ❖ شاهه ريم
  - ❖ شاهه عبداللطيف ڀٽائي
  - ❖ خواجه محمد زمان ٺٽوي
  - ❖ سچل سرمست
  - ❖ عبدالرحيم گرهوڙي
  - ❖ سامي
5. جديد سنڌي شاعرن جون صنفون.
  - ❖ غزل
  - ❖ نظم
  - ❖ آزاد نظم
  - ❖ گيت
  - ❖ هائي و
6. قديم سنڌي شاعرن جون صنفون.
  - ❖ سورتو
  - ❖ دوهو
  - ❖ بيت
  - ❖ وائي
  - ❖ نافي
7. جديد دور جا سنڌي شاعر.
  - ❖ عبدال ريم گدائي
  - ❖ حاجي احمد ملاح
  - ❖ حيدر بخش جتوئي
  - ❖ شيخ اياز
  - ❖ تنوير عباسي
  - ❖ امداد حسيني
  - ❖ استاد بخاري
  - ❖ مخدوم مٿاب آفندي



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- ❖ ايڙ گل  
❖ نالچل بروس  
❖ عبدالغفار تبسم  
❖ انل سومرو  
❖ نصير سومرو  
❖ رخسانا پريت چڊ  
❖ ماهين هيبياتي  
8. سنڌي نثر نگار  
❖ ۱ و پيرومل  
❖ هوتچند مولچند گربخشاڻي  
❖ ميران محمد شاهه  
❖ مرزا قليچ بيگ  
❖ ر عمر بن دائود پو و  
❖ پير علي محمد راشدي  
❖ پير حسام الدين راشدي  
❖ جي ايم سيد  
❖ ر نبي بخش خان بلوچ  
❖ ر غلام علي الانا  
❖ محمد عثمان ڏيپلائي  
❖ ايم فتح محمد سيوهاڻي  
❖ ر فهميده حسين  
❖ تاج جوڀو  
❖ ر مال چلم و  
9. جديد نثري ادب  
❖ ناول  
❖ افسانو  
❖ ڊرامو  
❖ سفرنامو  
10. ناول جا  
❖ جبهه اهم مجموعا  
❖ زينت  
❖ سانگه  
❖ سماعت  
❖ لوڙاهه  
❖ پ ائو سوني سد  
❖ رهجي ويل منظر  
❖ لاش  
❖ مون جو ڏڙو  
❖ خوابو ڏيڻو ۽ چو ري  
❖ پيار پناهون ۽ چانورا  
❖ جبهه اهم مجموعا  
11. داستان جا  
❖ بلو دادا  
❖ پشو پاشا  
❖ آب حيات  
❖ دل جي دنيا  
❖ سفيد وحشي  
❖ پائر تي لڙو و  
❖ چو بهون در
- مرزا قليچ بيگ  
محمد عثمان ڏيپلائي  
آغا سليم  
غلام نبي مغل  
سراج ميمڻ  
طارق عالم اڊ و  
غلام علي الانا  
علي بابا  
ماهتاب محبوب  
ماهتاب محبوب  
دا ر ايڙ قادري  
جمال اڊ و  
غلام رباني انڱرو  
امر جليل  
شيخ ايڙ  
نجم عباسي  
نسيم کرل





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امر جليل	❖ جن مان نه هونئس
سائر ۽ ي	❖ قنديء جي عيد
عائده گهوانگهرو	❖ تخليق جو انت
نور ا ل	❖ وصيت نامو
آغا سليم	❖ چڊ جا تملقي
ماهتاب محبوب	❖ چاندي جون تارون
مرزا قليچ بيگ	❖ 12 ڀر امن جا
مرزا قليچ بيگ	❖ ليلي مجنون
مرزا قليچ بيگ	❖ حسنا بلدار
مرزا قليچ بيگ	❖ شهزادو بهرام
محمد اسماعيل عرساڻي	❖ ڏاڏا واري آفيسر
شمشير الحيدري	❖ بد نصيب ٿري
ممتاز مرزا	❖ اڪ محل
قاضي خادم	❖ آخري رات
شيخ اياز	❖ 1 ڪا ڪا زنجير
قمر شهنواز	❖ ي جو بيجل پوليو
	❖ واپورن ۽ لاڻ
	13. اهم سفرناما
قاضي عبدالمجيد عابد	❖ يورپ جي دائري
سيد غلام مصطفي شاهه	❖ سير ۽ سفر
ڊا ر عبدالجبار جوڻيجو	❖ ماڻو جي مڙ ۽
الطاف شيخ	❖ منهنجو سنگر منهنجو ساحل
فقير محمد لاشاري	❖ سگهارو هماليه هٿا ماڻهو
شيخ عزيز	❖ مون ٿيان جو ڏيهه ٿيو
محبوب شيخ	❖ صبي کان ماء و
تنوير عباسي	❖ ٿوري ٿوري ڏيهه
احمد علي رند	❖ چار گه يون چين ۽
ماهتاب محبوب	❖ سرهي سرهي سر
اسحاق نصاري	❖ پرين هن پار
	14. ٽياري لاء منڍي تاب
لياڻ اٺواڻي	1 شاهه جو رسالو
ڊا ر گر بخشڻي	2 مقدمه لطيفي
سراج	3 سنڌي ٻولي
جي ايم سيد	4 پيغام لطيف
تنوير عباسي	5 شاهه جي عوامي شاعري
ڊا ر نبي بخش بلوچ	6 سنڌي ٻولي ۽ ادب جي تاريخ
پرومئل اٺواڻي	7 سنڌي ٻولي جي تاريخ
ڊا ر غلام علي الانا	8 سنڌي ٻولي جو نڀ بنوڪ
ڊا ر عبدالجبار جوڻيجو	9 سنڌي ادب جي تاريخ
پبلشر: سنڌي لئنگويج اٿارٽي، حيدرآباد	1 جلد
	2 جلد
	3 جلد
هيرو ر	10 قاضي قاتلن جو لام





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11. ريم جو لام ڊا ر دائود پو و  
12. چل جو لام عثمان انصاري  
13. سنڌي شاعري جون صنفون ظفر عباسي  
14. سنڌي ٻولي ۽ ادب جي مختصر تاريخ طارق عزيز شيخ پبلشر: اڻياواڙ اس و ر راجي  
15. چار مقالا اسماعيل عرساڻي  
16. سنڌي لوڪ ادب جو تحقيقي جائزو علدا ريم سنڊيلو  
17. سنڌي ادب جي تاريخ مختيار ملاح  
18. سنڌي لوڪ ڀائون ڊا ر نبي بخش بلوچ  
19. ار (مضمونن جو ٿاب) ڊا ر نواز علي شوق  
20. سنڌي افسانو ميمڻ رانجهڻ خان  
21. سنڌي نثر جي تاريخ منگهارام مل ڻي  
22. چوڏ سنڌي افسانا ڊا ر غلام علي الانا  
23. سچل سارو سچ مرثب: ڊا ر نواز علي شوق  
24. چهريءَ جا مور ڊا ر مال جام و  
25. شاعر اڻو اڀياس پروفيسر منظور ڪو و  
26. هه عبداللطيف ڀ ڻي ۽ پا ستاني ٻولين جا صوفي شاعر  
( مال جام و ۽ طارق عزيز شيخ )

15. (الف) سنڌي ۾ ٺٺل مضمونن جو انگريزي ۾ ترجمو

(ب) انگريزي ۾ ٺٺل پيراگراف جو سنڌي ۾ ترجمو



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## PAPER: SOCIOLOGY (100 MARKS)

### I. General Sociology

1. Individual: Sociability or the sociality of man.

2. Culture: Meaning and Characteristics (Culture is variable, learnt, social, shared, transmissive, dynamic and adaptive), types (Material, Non-material), functions (transfer of knowledge, define situation, provide behaviour pattern, moulds personality) and elements of culture (norms, values, beliefs, sanctions, customs). Culture and Socialization; formal and non-formal socialization, transmission of culture, cultural relativism. Sub-cultures. Ethnocentrism and xenocentrism, Cultural lag, High culture and popular culture. Multiculturalism, assimilation, and acculturation.

3. Society: Meaning and characteristics. Community; meaning and characteristics. Individual and society. Relationship between individual and society. Two main theories regarding the relationship of man and society (i) the social contact theory and (ii) the organismic theory. Social and cultural evolution of society (Hunting and Gathering Society, Herding and Advance Herding Society, Horticultural Society, Agrarian Society, Industrial Society, Post modern Society).

4. Social Interaction: Caste and classes, Forms of social classes, Feudal system in Pakistan, Social Mobility-nature of social mobility and its determinants in Pakistani society, Culture



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of poverty.

5. Social Control: Mechanisms of social control-formal and informal means of social control, Anomie, Alienation and social Integration-Means of social integration in Pakistani Society.

6. Social and Cultural Change and Social Policy: Processes of Social and Cultural Change-discovery, Inhibitions to social and cultural change in Pakistan, Social planning and directed social and cultural change, Effect of Industrialization, Urbanization, Modernization and Modern Means of Communication on Social Change.

7. Public Opinion: Formation of public opinion, concept of opinion leader, characteristics of opinion leadership.

8. Community: The rural community, Traditional Characteristics of rural life, The urban community, Rural - Urban convergence, Urbanism, Future of cities in Pakistan.

9. Social Institutions: The nature and genesis of institutions, The process of institutionalization, Functions of Social Institutions: Family, Religion, Education, Economy and Politics.

10. Social Problems in Pakistan: High population growth rate, Rural -urban migration. Issues of technical/vocational training, Deviance and street crime, Unemployment, illiteracy and School drop out, Smuggling, Prostitution, Poverty, Drug Addiction, Child



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Labour and Abuse, Bonded Labour, Social customs and Traditions affecting Women in Pakistan, Violence Against Women and Domestic Violence, Issues concerning the Elderly in Pakistan.

## II. Sociological Theory:

Three sociological perspectives: Structural Functionalism, Symbolic interactions and Conflict. Theorists: Ibn-i-Khaldun, Spencer, August Comte, Emile Durkheim, Max Weber, Karl Marx, Parson.

## III. Methods of Sociological Research:

Scientific Method, Steps in research, Types of Questionnaire Research Design, Surveys, Observation and Case Studies.

### **SUGGESTED READINGS**

S.No.	Title	Author
1.	Sociology : A down to earth approach	James M. Henslin
2.	Methods of Social Research	Baily
3.	Poverty Curtains	Dr. Mehboob-ul-haq
4.	Contemporary Sociological Theories	Pitrim Sorokin
5.	Master of Sociological Thought	Lewis A.Coser
6.	Sociology Ogburn & Nimkoff	
7.	Social Change and History	Robert Nisbet
8.	Feudal System in Pakistan	Nawab Haider Naqvi
9.	The Sociology of Rural Life	Lynn Smith, T.
10.	Sociology-Social Structure and Social Conflict	Kerbo, Harold R. (1989).

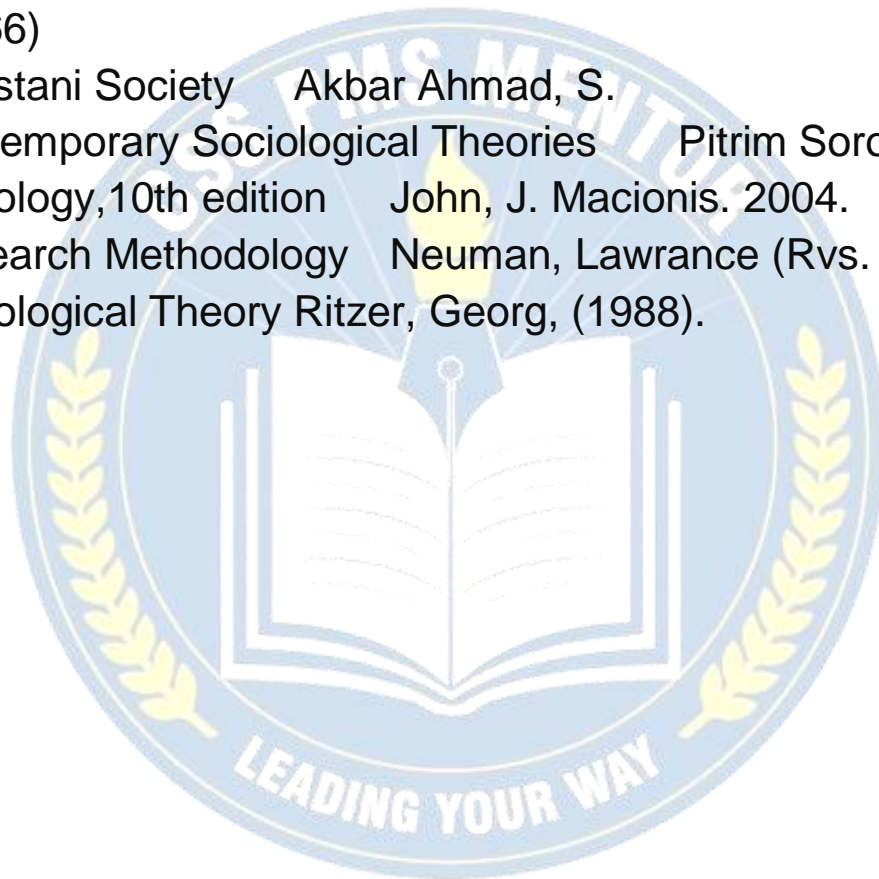


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11. Sociology: An Introduction to the Science of Society  
Koening Samuel
12. Marriage and The Family Lee, Alfred Mclung and Lee,  
Elizabeth Briant (1961).
13. The Design of Social Research, Ackoff, Russel, L.  
(Latest ed.)
14. An Introduction to the History of Sociology Barnes, H.E.  
(Ed.) (1966)
15. Pakistani Society Akbar Ahmad, S.
16. Contemporary Sociological Theories Pitrim Sorokin
17. Sociology, 10th edition John, J. Macionis. 2004.
18. Research Methodology Neuman, Lawrance (Rvs. Ed.)
19. Sociological Theory Ritzer, Georg, (1988).





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## **PAPER: STATISTICS (100 MARKS)**

Part - I (50 marks)

### I. Descriptive Statistics

Definition, Importance and scope of Statistics, Descriptive and Inferential Statistics, Presentation of the Data, Tables, Graphs and Charts: Stem-and leaf diagram, Box and Whisker Plots. Measures of Central Tendency/location, Measures of Dispersion/Variability: Measures of Skewness and Kurtosis.

### II. Basic Probability

Basic Probability Concepts, Additive and Multiplicative laws of Probability, Joint and Marginal Probabilities, Conditional Probability and Statistical Independence, Bayes' rule. Concept of a Random Variable, Mathematical Expectations, Discrete and Continuous Random Variables, Probability Distribution, Mean and Variance of a Discrete Probability Distribution.

### III. Probability Distributions

Discrete and continuous Probability Distributions. Properties, applications of Binomial, Poisson, Hyper-geometric distribution, Normal Distribution and its properties, Standard Normal Curve, Normal approximation to Binomial and Poisson distribution.

### IV. Regression Analysis & Correlation Analysis

Concepts of Regression and Correlation and their application, Simple and Multiple Linear Regression (upto three variables), Estimation of the Parameters of simple regression Model, Method of least square, Inference regarding regression



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parameters.

Correlation, Correlation Coefficient, Properties of Correlation Coefficient, Inference regarding correlation coefficient, Partial Correlation and Multiple Correlation Coefficients (upto three variables).

## V. Non-Parametric Methods

Parametric versus nonparametric tests, when to use non-parametric procedures, One-sample tests: Sign test, Wilcoxon signed ranks tests, Kolmogorov-Smirnov test, run test.

Tests for two related samples: sign test, run tests, chi-square test, Test for two independent samples: Mann-Whitney test, Kolmogorov-Smirnov test.

## Part - II (50 marks)

### I. Sampling & Sampling Distributions

Population and Sample, Advantages of Sampling, Sampling Design, Probability & Non-Probability Sampling techniques. Brief Concepts of Simple Random, Stratified,

Systematic, Cluster, Multiphase and Multistage Sampling. Non-probability sampling: Purposive, Quota Sampling, Convenience & Accidental Sampling.

Sampling with and without replacement, Application of Central Limit Theorem in Sampling, Sampling Distribution of Mean, difference between two Means, Proportion, difference between two Proportion and Variance.



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## II. Statistical Inferences

Estimation: Point Estimation, Properties of a good Estimator. Interval Estimation. Interval Estimation of Single Population means and Single proportion. Difference between two means and Difference between two proportions.

Hypothesis Testing: Types of errors. Hypothesis Testing for Population Mean. Inferences for difference between Two Population Means. Inferences for the difference between Means of Two Normal Populations using Independent Samples (variances are assumed Equal) for sample size. Inference for Two Populations Mean using Paired Samples. Hypothesis testing for Single Population Proportion and difference between two population proportions. Estimation of sample size. Analysis of categorized data. Goodness of fit tests. Contingency tables. Test of independence in contingency tables.

## III. Design of Experiments

One-way and Two-way Analysis of Variance, Design of Experiments, Concepts of Treatment, Replication, Blocking, Experimental Units and Experimental Error, Basic Principles of Design of Experiments, Description, Layout and Statistical Analysis of Completely Randomized Design (CRD), Randomized Complete Block Design (RCBD), Multiple Comparison tests (LSD test).

## IV. Population Analysis & Vital Statistics

Population and Demographic Methods, Sources of Demographic data, Basic Demographic Measures, Sex Ratio, Child Women



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Ratio, Vital Index, Crude and Specific Birth and Death Rates, Total Fertility and Net Reproduction Rates.

Official Statistics: Statistical Systems in Pakistan, Functions of Statistics Division, Bureaus of Statistics and NADRA. The National Income, Gross Domestic Product, Saving and Wealth, Index Numbers.

## SUGGESTED READINGS

Sr. No. Title Author

1. Principles and Procedures of Statistics Steel, R and Torrie, J.H.
2. Probability and Statistics for Engineers and Scientist Walpole, R.E., Myers, R.H. and Myers, S.L.
3. Introduction to Statistical Theory, Part-I & II Chaudhry, S.M. and Kamal, S.
4. Introduction to Probability Theory and Statistical Inference, 3rd Edition. Larson, H.J.
5. Design and Analysis of Experiments Montgomery, D.C.
6. Fundamentals of Modern Statistical Methods Wilcox, R.
7. Biostatistical Analysis Zar, J.H.
8. Latest Statistical Methods Vaidyanathan, M.
9. Statistical Methods Aggarwal, Y.P.
10. Mathematical Statistics Freund, John E.
11. Demographic Methods Andrew Hinde
12. Publications of Federal Board of Statistics and Provincial Board of Statistics, Pakistan. Govt. of Pakistan



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## **PAPER: TOWN PLANNING & URBAN MANAGEMENT (100 MARKS)**

I. Definition of Town Planning, Goals and objectives of Town Planning: Town Planning as a multi-disciplinary approach and relationship of Town Planning with other professions.

II. Historical Perspective of Urban Planning: Planning of historical towns in the world. Examples of planned towns in Europe, Nile Valley region, Euphrates and Tigris Valley region and Indus Valley region (Mohenjodaro, Harappa, Kot Diji and Mehr Garh and Gandhara Civilization).

III. Urban Rural Differences and Hierarchy of Settlements: Urbanization and its effects on the environment of urban areas.

IV. History of planning in Pakistan: 5 year plans, Regional Plans, Master Plans etc.

V. Managing Urbanization

- How to manage urbanization
- Best Practices
- Land use classification policy
- Building and development control
- Removal of encroachments
- Introduction to Intelligent Transport Systems (ITS)

VI. Housing community and Economic Development: To prepare professionals with the skills and knowledge of equitable



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development. Commitment to expanding opportunities and providing quality of life for disadvantaged groups.

VII. Public Policy and Urban Design Management: Solving social and environmental problems using:

- a. Economics,
- b. Policy analysis,
- c. Political science and
- d. Urban Design

VIII. Sustainability, Environmental Policy and Planning: How society conserves and manages its natural resources and works to promote development, while conserving and maintaining healthy environment.

IX. Urban Information Systems: Use of planning related software and spatial analysis tools and systems e.g. GIS, SPSS etc.

## SUGGESTED READINGS

S.No.	Title	Author
1.	Introducing Town Planning	Clara Greed
2.	Introduction to Town and Country Planning	John Ratcliff
3.	Town Planning for the Third World	A.K. Bhatti
4.	Contemporary Urban Planning	J.M. Levy
5.	Land Use, Planning, and Zoning	Peter J. Loughlin,
6.	Town and Country Planning in the UK	J.B. Cullingworth, Vincent Nadin



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7. Town Planning in Practice Raymond Unwin,
8. World Cities and Urban Mike Janks
9. Urban Land Use Planning Philip R. B
10. Environmental Science: A Global Concern William P
11. Megacity Management in the Asian and Pacific Region  
(Vol-2) Stubbs, Jeffery Giles Clarke
12. Dying Cities: Surviving the Urban Jungle Somaiya N
13. Handbook on Urban Sustainability Springer
14. Emerald Cities - Urban sustainability and Economics  
Joan Fitzgerald
15. Growing Greener Cities Eugene Birch, Susan Wachter
16. The Earth scan Reader in Sustainability Cities David  
Sattethwaite
17. The Poverty Curtain Dr. Mehboob -ul-Haq
18. Reflections on Human Development Dr. Mehboob -ul-  
Haq
19. Smart Cities Anthony Townsend



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### PAPER: URDU LITERATURE (100 MARKS)

25

۱۔ اردو ادب کا مطالعہ

۱۔

i۔ اردو زبان و ادب کی اسلامی شناخت

ii۔ بیسویں صدی کی ادبی تحریکیں

iii۔ پاکستانی ادب کی اصطلاح: تشکیل و روایت اور ارتقاء

۲۔ شعری ادب کا تنقیدی مطالعہ

۲۔

15

الف۔ دورِ قدیم

i۔ میر (غزل - انتخاب میر مولوی عبدالحق)

ii۔ غالب (دیوان غالب)

iii۔ حالی (مسدس)

iv۔ اقبال (طلوع اسلام، خضر راہ، مسجد قرطبہ)

10

ب۔ دورِ جدید

i۔ فیض (غزل - دستِ صبا)

ii۔ راشد (نظم - ایران میں اجنبی)

iii۔ مجید امجد (نظم - شبِ رفته)

iv۔ ناصر کاظمی (غزل - برگِ نئے)

۳۔ نثری ادب کا تنقیدی مطالعہ

۳۔

10

الف۔ غیر افسانوی نثر

i۔ شبلی (سیرت النبی ﷺ، جلد اول)

ii۔ مولوی عبدالحق (خاکے، چند ہم عصر)

15

ب۔ افسانوی نثر

i۔ منٹو (افسانے، منٹو کے بیس افسانے: مرتب ڈاکٹر انوار احمد، ڈاکٹر اے بی اشرف)

ii۔ احمد ندیم تاشی (افسانے، کپاس کا پھول)

iii۔ مشتاق احمد یوسفی (ظن و مزاح، آبِ گم)



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10

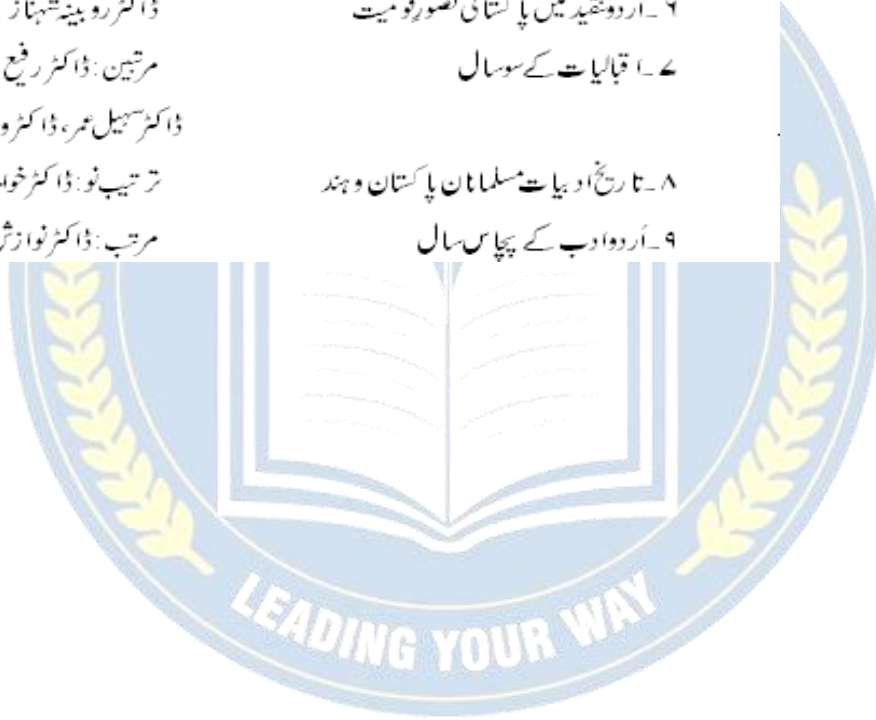
۴۔ تنخیص

15

۵۔ مضمون

مجوزہ کتب برائے مطالعہ

- |  |                                  |
|--|----------------------------------|
| ۱۔ تنقید اور جدید اردو تنقید           | ڈاکٹر وزیر آغا                   |
| ۲۔ اردو ادب کی تحریکیں                 | ڈاکٹر انور سدید                  |
| ۳۔ آب کوثر                             | شیخ محمد اکرام                   |
| ۴۔ رو کوثر                             | شیخ محمد اکرام                   |
| ۵۔ موج کوثر                            | شیخ محمد اکرام                   |
| ۶۔ اردو تنقید میں پاکستانی تصور قومیت  | ڈاکٹر روبینہ شہناز               |
| ۷۔ قبا لیا ت کے سوسال                  | مرتبین: ڈاکٹر رفیع الدین ہاشمی   |
| ۸۔ تاریخ ادبیات مسلمانان پاکستان و ہند | ڈاکٹر سہیل عمر، ڈاکٹر وحید عشرت  |
| ۹۔ اردو ادب کے پچاس سال                | ترتیب نو: ڈاکٹر خواجہ محمد زکریا |
|  | مرتب: ڈاکٹر نواز شعلی            |





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## **PAPER: ZOOLOGY (100 MARKS)**

### **I. Animal Diversity-Invertebrates**

- Architectural pattern of an animal, Taxonomy and phylogeny, Major subdivisions of animal kingdom.
- Animal-Like Protists: The Protozoa: evolutionary perspective, locomotion and reproduction, Protozoa of veterinary and medical importance.
- Porifera: Body wall, skeleton and water currents system. Coelenterates: Reproduction plan and alteration of generation (Polymorphism), Coral reefs.
- Platyhelminthes and Nematodes: Parasitic adaptations and medical importance. Annelids: Metamerism and ecological importance.
- Molluscs: Modification of foot, Feeding and their role in the shell fishery.
- Arthropods: Modification in their mouth parts, Role of arthropods as vectors in the transmission in microbial infection. Arthropods and their ecological importance.
- Echinoderms: Characteristics, Evolutionary perspective, Relationships to other animals; echinoderm characteristics.

### **II. Animal Diversity-Chordata**

- Hemichordates and Invertebrate Chordates: Evolutionary Perspective: Phylogenetic Relationships and considerations.
- Fishes: Structural and functional adaptations of fishes.
- Amphibians: Movement onto land and early evolution of terrestrial vertebrates.
- Reptiles: Characteristics of reptiles, adaptations in reptilians.



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- Birds: Migration and navigation, adaptations.
- Mammals: Structural and functional adaptations of mammals.

### III. Principles of Animal Life

- The chemical basis of animal life: Brief introduction to bio-molecules; carbohydrates, lipids, proteins and nucleic acids.
- Cell concept and cell theory, Organization of cellular organelle (their structure and functions), Central dogma of cell biology (Transcription and Translation), Meiosis and Mitosis
- Protozoa: Reproduction pattern in protozoan, Parasitism in protozoan
- Mesozoa and Parazoa: Porifera: Cells types, body wall and skeleton and water currents system, Coelenterata: Reproduction plan and alteration of generation (Polymorphism)
- Tissues Types: epithelial, connective, muscle and nervous tissues; organs and organ systems.
- Enzymes function and factors affecting their activity, cofactors and coenzymes. Energy Harvesting: Aerobic and anaerobic respiration the major source of ATP.
- Mendel's law of inheritance, Chromosomal basis of inheritance, Multiple alleles, Eukaryotic chromosomes: Mutations and chromosomal aberrations.
- Ecological Concepts: Interactions, Concepts and components of ecosystem, Food chain, Food web, Biogeochemical cycles, Forests, Biomes, Wildlife conservation and management, Environmental pollution, Green house effect, Acid rain, Global warming and climate change.



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- Evolution: Darwinian evolutionary theory based on natural selection and the evidence, Microevolution: Genetic variation and change within species, Macroevolution: Species and speciation (Allopatric, Parapatric and Sympatric speciation)

## IV. Animal Form and Function

- Protection, Support and Movement: Integumentary system of invertebrates and vertebrates; Animal muscles: the muscular system of invertebrates and vertebrates.
- Digestion and Nutrition: Feeding mechanism, Digestion, Organization and regional function of alimentary canal, Regulation of food intake, Nutritional requirements
- Internal Fluids and Respiration: Internal fluid environment, Composition of blood, Circulation and respiration mechanisms
- Homeostasis: Excretion, Vertebrate kidney mechanisms, Temperature regulation
- Nervous Coordination: Nervous system and Senses: Functional units of nervous system, Synapses junctions between nerves.
- Chemical Coordination: Endocrine System; Vertebrate endocrine glands and types of hormones, Mechanism of hormones action,
- Animal Behavior: Learning, Habituation, Insight learning, latent learning, classical learning: Control of Behavior; social behavior



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## SUGGESTED READINGS

- | S.No. | Title   | Author  |
|-------|---|---|
| 1.    | Integrated Principles of Zoology.                         | Hickman, Jr. C.P.,<br>Keen, S. L, Larson, and Eisenhour, D.J. |
| 2.    | Zoology   | Miller, S. A. and Harley, J. B.                               |
| 3.    | Biology   | Campbell, N.A.  |
| 4.    | Evolution. 2nd Edition                                    | Douglas Futuyma   |
| 5.    | Animal behavior:- An Evolutionary Approach, (9th Edition) | John Alcock   |

