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**GEOGRAPHY**

**Geography**

**B.Sc**

**GEOGRAPHY**

**B. Sc (Pass) NEW SYLLABUS (2011)**

**Paper- I:**

**Physical Geography**

1. Universal concept in Physical Geography
   * Earth’s Origin, shape and size, rotation and revelation, composition and structure, distribution of land water.
   * Realms of the physical environment
2. Lithosphere
   * internal structure of earth
   * Rocks- origin, formation and types: Igneous Rocks, Sedimentary and Metamorphic Rocks.
   * Plate tectonics, mountain building
   * Geomorphic processes – endogenic and exogenic processes and their resultant landforms
   * Earthquakes and volcanic activity, folding and faulting.
   * Weathering, mass wasting, cycle of erosion, erosion and deposition.
   * Landforms produced by surface water, ground water, wind and glaciers.
3. Atmosphere
   * Composition and structure of atmosphere.
   * Atmospheric temperature and pressure, global circulation.
   * Air masses and fronts
   * Cyclones and other disturbances
   * Atmospheric moisture and precipitation.
4. Hydrosphere:
   * Ocean deposits, compositions, temperature, and salinity of ocean water.
   * Movement of the ocean water; waves, currents and tide.
5. Biosphere:
   * Eco- systems
   * Formation and types of soils

Books recommended

1. Christopher, R.W. (2000), Geo- systems, Prentice – Hall, Inc, USA.
2. De Blij, H. J. and Muller, P.O. (1996), Physical Geography of the global Environment, USA John Wiley and Sons Inc.
3. Gabler, R.E Sager, R.J and Wise, D.L(1997), Essentials of Physical Geography, Saunders College Publishing, New York.
4. King, CAM (1980), Physical Geography,, Oxford, Basil Blackwell.
5. Mcliveen, J.F.R. (1992), Fundamental of weather and climate, Prentice Hall New Jersey.
6. Miller, G.T. (1996), Living in the Environment, Principles, connection and solution,, Wadsworth.
7. Monk , house, F.J. (1996), Principles of Physical Geography, Hodder & Stoughton, London.
8. Scott, R.C. (1996), Introduction to Physical Geography, West publishing Co. New York.
9. Strahlar, A.N., Strahlar, A.H. (2004), Physical Environment, John Wiley, New York.
10. Hussain Majid (2007), Fundamentals of Physical Geography, 3rd edition, Rawat Publications, New Delhi India.

**Paper- II:**

**Human Geography**

1. Key concept in Human Geography
2. Meaning, Scope and status of Human Geography
3. Basic concept and theories
4. Environmental determinism
5. Possibilism, Probabilism.
6. Cognitive behaviorism
7. Population and its characteristic
8. Population distribution, density and growth
9. Dynamics including fertility, morality and migration,
10. Population composition; rural and urban population
11. Natural resources and human activities
12. Primary, secondary, tertiary, quaternary and quinary
13. Agriculture, mining, forestry, animal husbandry and poultry.
14. Industries: cottage, light and heavy
15. Trade and transport
16. Tourism
17. Settlements
18. Theory of human settlement
19. Type of settlement,
20. Rural settlement
21. Dispersed, nucleated and Ribbon settlement
22. Rural urban contrast
23. Urbanization
24. Introduction to urban structure and theories
25. Land use and land cover pattern
26. Commercial, Industrial and residential, open, green spaces/belts and transport.
27. Presses of urbanization (city size distribution intermediate and primate city etc.)
28. Environmental issues, causes and remedies

**Books Recommended**

1. Becker, A, & Secker (2002), Human Geography: Culture, Society, and Space, New York; John Wiley and Sons
2. Blij, H.J.D. (2002), Human Geography: Culture, Society, and Space, New York; John Wiley and Sons
3. Hagget, P. (1997), Geography: A modern Synthesis, London. Harper International.
4. Harper, H.L. (2003), Environment and Society: Human perspectives on Environmental Issues, New York; Prentice Hall.
5. Knox, P.L. & S.A. Marston (2003), Places and Regions in Global Context: Human Geography, New York; Prentice Hall.

**Paper –III:**

**Geography of Pakistan**

1. The Making of Pakistan
2. Location and geopolitical importance Relations with neighboring states.
3. The genesis of Pakistan.
4. The borders of Pakistan and related problems
5. Administrative setup

2. The land:

a) Physiography .

b) Climate and Climate regions .

c) Soil and vegetation.

3. The People:

a) Population structure, composition and distribution

b) Population change.

c) Urbanization.

4. Economy

a) Agriculture (crops and livestock)

b) Irrigation

c) Power and mineral resources

d) Industries

e) Tourism.

f) Trade

5. Transport and communication

**Books recommended**

1. Ahmad Q.S (1964), Geography of Pakistan oxford University press.
2. Burkey J.S (1991) Pakistan the continuing search for Nationhood, Western Press Oxford UK
3. Davidson, A.P& Munir Ahmad, (2003), Privatization and the crisis of Agriculturlal Extension The Case of Pakistan (King's Soas studies in Deveiopment Geography Ashgate publishing
4. Dichter, D (1967), Geography of N-W.F.P oxford University Press .
5. Imperial Gazetteer of India, (1901), North west frontier province, Government of NWFP printing press Peshawar .
6. Khan F.K(1991) Geography of Pakistan Oxford University press Karachi
7. Tayyeb A.(1966)A political Geography of Pakistan oxford university press
8. Sahibzada, M.A (1960) land use Survey of N.W.F.P, Part-I P and D Department of Government of Pakistan.

**Paper-IV**

**Environmental Geography**

1. Concept of environment
2. Environmental geography: its nature scope and importance
3. Environment and man ecosystem, human interaction with the environment.
4. Population explosion , the human impact on environment ,resources endangered earth.
5. Environmental hazards , classification , nature and dimension
6. Geo physical hazards
7. Biological Hazards , AIDS , Malaria
8. Technological hazards geometry and geography (Air population, ozone layer depietion , green house effects ,water population , marine pollution ,pesticides problem , water logging and salinity desertification.
9. Environment impact assessment , national and individual action, natural extremes and social resilience.
10. A survey of Pakistan’s environmental hazards natural hazards technological hazards , national conservation strategy.
11. Pakistan environmental act. Environmental ethics and hope .

**SUGGESTED BOOKS.**

1. Guha, R 2000 Environmentalism : A Global History

New York : longman pp.69-97

1. Freedman,B 1998 Environmental science : a Canadian Perspective

Canada: Scarborough prentice Hall

1. Arm Karen. 1991 . Environmental science ,sanunders College Publishing

Philadelphia

1. Bennet , Robert and Estall Robert 1991-Global challenge

London : Geography for the 1990’s Routledge

1. Knapp., B 1990 . The challenge of natural Environment :

London : longman

**Laboratory And field work (GEOGRAPHY)**

**Practical -1**

1. Introduction to maps
2. Types of Maps
3. Scales –Plain , diagonal ,comparative and their uses.

2. Interpretation

(a) General Topographical and composite contour maps with the help of given data and information

b) Weather maps of Pakistan.

c) An introduction to aerial photographs and Remote sensing

3. Map projections General principles, classification, choice of projection, merits and demerits, construction of graticule and simple graphic methods of the following projections.

a) Cylindrical simple and Equal area and Mercator's (with table)

b) Zenithal; Gnomonic, stereographic and Orthographic (polar cases)

c) Conical, one and two standard parallels.

**Practical –II**

1. Simple quantitative techniques and their use in geography.

2. Methods of data collection.

3. Study of frequency distribution.

4. Averages Mean Median and Mode.

5. Mean deviation.

6. Standard deviation.

7. Variance

8. Introduction to basic computing Dos windows word processing and simple graphics.

**PRACTICAL-III**

1. Preparation of distributional maps with the help of symbols line bars shade.

2. Introduction to basic computing Dos windows word processing and simple graphics

3. Introducation to Global Positioning System (GPS) and its basic functions.

**PRACTICAL-IV**

1. Instrumental surveying; making of plans with the help of chain plane table and prismatic compass.

2. Field report based on the study of geographical aspects of a selected area/activity

3.Introduction to Global positioning information system(G.I.S).

4. GIS is modern and Computer based cartography techonology.

Books Recommended for practical I, II, III & IV

1. Robinson, A.N (1999) Elements of cartography New yourk john wiley .

3. Leon A and leon; M.(1999)Introduction to computers

4. Burt ET(1996)elements of statistics for Geographers thematic maps design.

5. Khan J A (1993) weather maps interpretation of Pakistan .

6. Benton JR AR (1992) elements of plane surveying .

7. Avery TE and Berlin

8. Panda B.C (2005) Remote Sensing, Principles and applications, viva book private limited New Delhi India

**Text Books**

1. Croxton fe & cowden D.j (1964) applied general statistics prentice –hall inc New york
2. Ferund j.e & williams f.j (1973), modern business statistice prentices hall inc New york
3. Wolpole R.f (1982) introduction to statistice macmillan publishing co.in newyork
4. Bancroft G.O sullivan :G(1981)Mathematics and statistics for accounts and business studies .McGraw hill New York
5. Dixon W j and massey F.j (1985) introduction to statisticl to statistical analysis mcgra hill book co London .
6. Yle G.u & kenall mg (1991), an introduction to the theory of statistical Charles griffin &Co ltd London .

Mason R.D lind D A and marchal w .G (2001) statistical techniques in business and economics mcgraw hill new York .

1. Burden R.L and fairs j.d (2005)Edition Numerical analysis prindle weber and Schmidt boston.