

Revised Syllabi & Courses of Reading

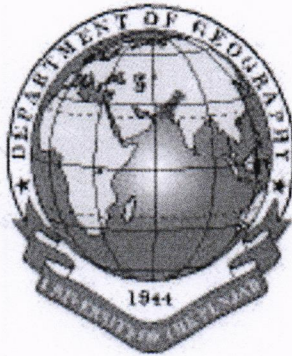
For

**BA/BSc
Part-I&II**

in

GEOGRAPHY

2018 onwards



**DEPARTMENT OF GEOGRAPHY
UNIVERSITY OF THE PUNJAB
NEW CAMPUS LAHORE**

Shiz
CONVENE
B.O.S: Geograph
P.U: Lahore

	B.A. / B.Sc. Geography-I		Total Mark: 100
	Appendix 'A'		
	(Outlines of Tests)		
Paper-A	Physical Geography (Written)		70 Marks
Paper-B	Map Work and Cartography & Practical-1		30 Marks
The distribution of marks for the Map Work and Practical Examination shall be as follows			
1. Lab. Work (Written Paper)	15 Marks		
4. Record of Map Work	10 Marks		
5. Vive Voce	05 Marks		
	Total		100 Marks
	Appendix 'B'		
	(Syllabi and Courses of Reading)		

PART-1 PHYSICAL GEOGRAPHY

Paper: A

70 Marks

1. The Earth and its Origin:

The universe, the solar system and the earth, Earth's origin, shape and size, rotations and revolution, composition and structure, distribution of land and water, Earth's geological history: origin and evolution of life on Earth.

2. Atmosphere:

Composition and structure of the Atmosphere, Atmospheric temperature and pressure, Winds and global circulation, Air masses and fronts, Cyclones and weather disturbances, Atmospheric moisture and precipitation, Climatic classification: Koppen's classification with special reference to the following types: Af, Am, Bsh, Ds and Df.

3. Lithosphere:

Internal Structure of the Earth, Rocks Origin, formation and types, (Igneous, Sedimentary and Metamorphic), Plate Tectonics, Mountain building, earthquakes, volcanic activity, Geomorphic processes-internal and external, Weathering, mass wasting, erosion and deposition, cycle of erosion, Landform produced by surface water, ground water, wind and glaciers, Formation and types of soils.

4. Hydrosphere:

Configuration of ocean floor, Ocean deposits, Composition, temperature, and salinity of ocean water, Movements of the oceanic water: waves, currents and tides.

Recommended Books

1. Hidore, J.J., Oliver, J.E., Mary Snow, M., and Snow, R. (2016) Climatology an Atmospheric Science 3rd Ed. Pearson Education, Singapore.
2. Pinet, P. R. (2016) Invitation to Oceanography, Navigate USA
3. Critchfield H. J. (2015) General Climatology, Pearson India
4. Darrel, H. (2015) McKnight's Physical Geography A landscape Appreciation, Pearson India.

5. Dessler, A. (2015) Introduction to Modern Climate Change, Cambridge University Press
6. Abhilash, G. (2014) Contemporary Physical Geography, Random Publications New Delhi Delhi.
7. Bimal, D. (2014) An Introduction to Climatology, Random Publication New Delhi
8. Petersen J., Sack, D., Gabler. R. E. (2014) Fundamentals of Physical Geography 2nd Ed. CENGAGE Learning
9. Das Gupta, A. Kapoor, A. (2013) Principles of physical geography, S Chand & Company Pvt Ltd.
10. Pinet, P. R. (2013) Invitation to Oceanography, 6th Ed. Jones & Bartlett Learning.
11. Sundaresan, J. (2013) Climate Change and Island and coastal vulnerability, Capital publishing company New Delhi
12. William, M. (2013) Physical Geography, Cambridge University press
13. David, C. (2011) Energy and Climate Change, New Delhi
14. McIlveen, R. (2010) Fundamentals of Weather & Climate 2nd Ed. Oxford University Press.
15. Gabler. R. E., Petersen J. F., Trapasso, L.M., Sack, D. (2009) Physical Geography, 9th Ed. Brooks/Cole CENGAGE Learning.
16. Arbogast, A. F. (2007) Discovering physical geography, John Wiley & sons, London
17. Sverdrup K. A., Duxbury, A. C. and Duxbury, A. B. (2006) Fundamentals of Oceanography 5th Ed. McGraw-Hill Publishing Company.
18. Qazi, S. A. (2009) Principles of Physical Geography, APH Publishing Corporation New
19. Jhone E. Oliver & Jhon J. Hidore (2003) Climatology; An Atmospheric Science, Pearson Education, Singapore.
20. Pearce R. P. (2002) Meteorology at the Millennium, Academic Press, New York.
21. De Blij, H.J & M Muller P.O. (1993) Physical Geography of the Global Environment New York, John Wiley.
22. Taylor. J (1993) Integrated Physical Geography *London, Longman*
23. Mcilvern, J.F.R (1991) Fundamental of Weather and Climate *London Chapman & Hall*
24. Thornbury. W. (1991) Principles Geomorphology *New York, John Wiley*
25. Monkous, J.F. (1988) Principles of Physical Geography, *Holder & Stoughton London:*
26. Strahler A.H. & Strailr. A. N. (1987) Modern Physical Geography 4th Ed. New York, John Wiley
27. Miller E.W. (1985) Physical Geography Columbus. Charles E. Merrill
28. Kimng C.A.M (1980) Physical Geography Oxford. Basil Blackwell
29. Trewartha GT, Robinson, A.H & Hammond, E.H (1967) Physical Elements of Geography 5th Ed. *New York, McGraw Hill*

PRACTICAL PART-I
MAP WORK AND CARTOGRAPHY
 (Syllabi and Courses of Reading)

Paper-B:

Marks 30

1. Study of Maps

- a. Maps and their Types
- b. Scales: Plain and Diagonal

2. Methods and Representation of Relief

- a. Exercises and drawing of composite contour maps with the help of given data and information.

3. Interpretation of Maps

- a. Topographical Maps
- b. Aerial Photographs and introduction to Remote Sensing
- c. Weather maps of Pakistan

4. Collection, Tabulation and Presenting of Data

- a. Simple quantitative techniques and their use in geography. Study of frequency Distribution, averages (Mean, median and mode), mean deviation standard deviation and correlation.
- b. Preparation of distribution crops with the help of Symbols - Line bars. Shads, dots, circle.

5. Map Projections

- a. General principles, classification, choice of projection, merits and demerits, construction or graticule by simple graphic methods of the Following projections:
- b. Cylindrical-Simple and Equal Area, and Mercator's (with Table).
- c. Zenithal-Gnomonic, Stereographic and Orthographic (Polar cases)
- d. Conical one and two standard parallels and Bonne's.

Recommended Books

1. Krygier, J. and Wood, D. (2016) Making Maps A Visual Guide To Map Design For GIS 3rd Ed. Publisher: Guilford Press.
2. Robert, G. C. (2015) Digital Cartography, Prentice Hall, Englewood Cliff, New Jersey.
3. Dorling, D. Fairbairn, D. (2013) Mapping Ways of Representing the World, Routledge.
4. Tyner, J. A. (2013) Principles of Map Design, Guilford Press.
5. Duggal, S. K. (2012) Surveying third edition, Tata McGraw Hill Education New Delhi
6. Sing, G. (2012) Map Work and practical Geography, Vikas Publishing house New Delhi
7. Roy, S.K. (2011) Fundamentals of surveying, Prentice Hall New Delhi
8. Thrower, N. J. W. (2008) Maps Civilization Cartography in Culture And Society 3/E (Pb), the University of Chicago Press Books
9. Kraak, M. J. and Ormeling, F. (2005) Cartography Visualization of Geospatial Data, 2nd Ed. Pearson Education.
10. Saeed, Q. (2002) Map Projections, Publishers United (PVT) LTD 176-Anarkali, Lahore.
11. Dent, B. D. (1993) Cartography: Thematic Maps design Oxford, WCB.
12. Khan J. A. (1993) Weather Maps interpretation of Pakistan Karachi, University of Karachi.
13. Campbell, J. (1990) Introduction to cartography, Oxford, W.C.B.
14. Briggs, K. (1989) Practical Geography London: Hodder and Stoughton
15. Singh, R.L. (1979) Elements of Practical Geography, New Delhi, Kalyani Publisher.
16. Ahmad, K. S. (1973) Map Projections, Lahore, Oxford WCB.
17. Monkhouse, F. J. & Wilkinson, H. R. (1971) Maps and Diagrams 3rd Ed. London. Methuen & Co
18. Bygott, J. (1969) An Introduction to Map Work and Practical Geography London University Tutorial Press.