14. GEOGRAPHY

APPENDIX 'A'

(Outlines of Tests)

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<th>Paper 'A'</th>
<th>Physical Geography</th>
<th>Marks</th>
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<td>Paper 'B'</td>
<td>Human &amp; Regional Geography</td>
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<td>Paper 'C'</td>
<td>Map Work and Practical</td>
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The distribution of marks for the Map Work and Practical Examination shall be as follows:

1. Lab. Work       ... ... ... ... 15 Marks
2. Field Surveying  ... ... ... ... 10 "
3. Field Report     ... ... ... ... 15 "
4. Record of Map Work ... ... ... ... 10 "
5. Viva-Voce        ... ... ... ... 10 "

Examination in Lab. Work, Field Survey and Field Report shall be conducted during the Practical Examination by the same Examiners.

Note: A minimum of sixty practicals of 3 hours each shall be required in two years (30 practicals each year). Map Work & Practical Examination will spread over two days.

APPENDIX 'B'

PAPER A: PHYSICAL GEOGRAPHY

1. THE EARTH AND ITS ORIGIN

The Universe, the Solar System and the Earth, Earth's origin, shape and size, rotation 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 Atmosphere, Atmospheric temperature and pressure, Winds and global circulation, Air masses and fronts.

Cyclones and weather disturbances, Atmospheric moisture and precipitation. Climatic classification: Köppen's classification with special reference to the following types: Af, Am, Bsh, Cs and Df.

3. LITOSPHERE

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, Landforms 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 ocean water: waves, currents and tides.

PAPER B: HUMAN AND REGIONAL GEOGRAPHY

PART I: HUMAN GEOGRAPHY

(a) Man-environment Interaction:

Themes of environmental determinism, possibilism and perception.

(b) Population:

Distribution, age and sex structure, population change (natural increase and migration).

(c) Settlements

Rural, urban: location, form and function of settlements, Central Place Theory.

(d) Economic Activity:

Locational characteristics of primary, secondary, tertiary and quaternary activity.

(e) Environmental Problems:

Ecosystem and environmental degradation.

PART II REGIONAL GEOGRAPHY

Study of South Asia with special emphasis on Pakistan under the headings:
Resource base (physical, human and economic), transport, trade and international relational.

Note: There will be two parts in paper B. The students will be required to attempt at least two questions from each part. Each question will carry equal marks.

PAPER C: MAP WORK AND PRACTICAL

1. Study of Maps:
   (a) Types of Maps
   (b) Scales—plain and diagonal


3. Interpretation of:
   (a) Topographical maps.
   (b) Aerial Photographs and introduction to Remote Sensing.
   (c) Weather maps of Pakistan.

4. Map projections: general principles, classification, choice of projection, merits and demerits, construction of graticule by 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 add two standard parallels and Bonne's.

5. Simple quantitative techniques and their use in geography. Study of frequency distribution, averages (Mean, median and mode), mean deviation, standard deviation and correlation.

6. Preparation of distribution maps with the help of symbols - Line, bars, shades, dots, circles.

7. Instrumental surveying: Making of plans with the help of chain, plane table and prismatic compass.

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

BOOKS RECOMMENDED

PAPER "A" PHYSICAL GEOGRAPHY

New York: John Wiley.

London: Chapman & Hall.

London: Holdor & Stoughton.


Columbus: Charles E. Merrill.

oxford: Basil Blackwell.


New York, John Wiley.

**PAPER "B" HUMAN AND REGIONAL GEOGRAPHY**

oxford: Blackwell.

London: Longman.

London: Macmillan.

London: Longman.

London.

Lahore: Hafeez Press.

O.U.P.

New Delhi: Prentice Haces.
   New York: John Wiley.

10. BRADNOCK, R.W. (1982) *Agricultural Change in South Asia*
    London: John Murray.

11. JOHNSON, B.L.C. (1979) *Pakistan*

    London: Methuen.


**PAPER “C” LABORATORY AND FIELD WORK**

   Oxford: WCB.

2. BENTON Jr., A.R. (1992) *Elements of Plane Surveying*

3. CAMPBELL, J. (1990) *Introduction to Cartography*
   Oxford: WCB.

   London: Hodder and Stoughton.

5. ROBINSON, A.H. (1988) *Elements of Cartography*
   New York: John Wiley.

6. SINGH, R.L. (1979) *Elements of Practical Geography*
   New Delhi, Kalyani Publishers.

7. AHMAD, K.S. (1973) *Map Production*
   Lahore: Publishers United.

   London: University Tutorial Press.