Geography
B.A./B.Sc.: Elective and Optional

Outlines of Tests

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title of Course</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A:</td>
<td>Physical Geography (To be taught in BA/ B.Sc Part-I)</td>
<td>70</td>
</tr>
<tr>
<td>B:</td>
<td>Human and Regional Geography (To be taught in BA/ B.Sc Part-II)</td>
<td>70</td>
</tr>
<tr>
<td>C:</td>
<td>Map Work and Practical</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>i. Written Paper</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>ii. Field Survey</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>iii. Field Report</td>
<td>10</td>
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<td>iv. Viva Voce</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>v. Record</td>
<td>10</td>
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<td></td>
<td><strong>Total:</strong></td>
<td><strong>200</strong></td>
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Note:
A minimum of 30 practical of 3 hrs each in a year shall be required. Map work & practical examination will spread over 2 days and shall be conducted by the same examiners

Syllabi and Courses of Reading

PAPER A: PHYSICAL GEOGRAPHY

Objective:
To create understanding of Physical environment.

Contents:

1. **The Earth and its Origin:**
   The universe: the solar system, Earth's origin, shape and size, rotation and revolution, composition and structure.

2. **Atmosphere:**
   Composition and structure of atmosphere, temperature and pressure, winds and their global circulation, air masses and fronts (classification, distribution and associated weather), cyclone and weather disturbances. Hydrological cycle, atmospheric moisture and precipitation, climate classifications: Koppen’s classification with special reference to the following types: Af, Am, Bsh. Csa and DF. Atmospheric pollution.

3. **Lithosphere:**
   Internal structure of the Earth. Rocks origin, formation and types (igneous, sedimentary and metamorphic) plate tectonics, mountains building, geomorphic processes internal and external, earth quakes, volcanic activity, weathering, mass wasting, landforms produced by surface water, ground water, winds and glaciers.

2. **Hydrosphere:**
   Configuration of ocean floor, deposits, composition, temperature and salinity of oceanic water, movement of the oceanic water, waves, currents and tides.

3. **Biosphere:**
   Origin and evaluation of life on Earth (with reference to Geological time scale). Formation and types of soils, Forest Biome. (Major forest types)

TRANSMISSION OF CONTENTS
Lecturers to be supplemented by Audio-visual aids:

7. Maps and Models
8. Slides, films strips and transparencies
9. Rocks, minerals and soil specimen
10. Magazines and journals
Outlines of Tests and Courses of Reading BA/B Sc Pass Course

11. Photographs
12. 6.  CDs

Books Recommended:

PAPER B: HUMAN AND REGIONAL GEOGRAPHY

Marks 70

Objective:
To develop the skills of analytical study of Man- Environment interaction.

Section I  HUMAN GEOGRAPHY
1. Man environment interaction
   Environment determinism, possibilism and perception
2. Population
   Growth and natural increase, composition (age and sex structure) population change, migration and distribution.
3. Human Settlements
   Location, forms and function of urban and rural settlements, central place theory
4. Economic Activity
   Location, characteristics of primary, secondary, tertiary and quaternary activities
5. Environmental Problems
   Ecosystem and environmental degradation

Section II  REGIONAL GEOGRAPHY
Study of South Asia with special reference to Pakistan.
Under the following headings:
Resources base (Physical, Human, Economic) Transport, trade and Geo Political importance.

Books Recommended:
iv) Khan F.K An introduction to Economic Geography Karachi Saleem publishing house
PAPER C : MAP WORK AND SURVEYING

Marks 60

i) Introduction to Map
Definition, types and use of maps

ii) Scale
Plain, Diagonal, Conventional signs and contours of various land forms
Weather maps, Beauport scale, weather forecasting
Aerial photography and remote sensing

3. Collection, Tabulation and Presenting of Data:
Sample, quantitative techniques and their use in Geography. methods of data collection, study of frequency distribution. Average (mean, mode and median) . Mean deviation and standard deviation. Statistical diagrams and distribution maps.

4. Map Projections:
General principles , classification, choice of projections, merits and demerits, construction of graticules by simple graphic methods of the following projections.

i. Cylindrical Projections: Simple , Equal Area and Mercators projections
ii. Conical Projections:One and two standard parallel and Bonne’s projections
iii. Zenithal Projections:Gnonomoic, Stereographic and Orthographic Projections (polar case)

5. Instrumental Surveying
Making plans with the help of chain, plane table and prismatic compass

6. Field Report:
Based on the study of Geographical aspects of a selected area /activity (a field may trip may be arranged to prepare this report)

Books Recommended:

10. Ahmad, K. S. (1973) Map Projections, Lahore, Oxford WCB
   Chennai Leon Tech worlds
   176-Anarkali, Lahore.

**GEOGRAPHY : OPTIONAL**

**Outlines of Tests**

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<tbody>
<tr>
<td>A</td>
<td>General Geography of Pakistan</td>
<td>100</td>
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</table>

**Syllabi and Courses of Reading**

General Geography of Pakistan under the following heads:-

(i) Relief.
(ii) Climate.
(iii) Natural Vegetation.
(iv) Irrigation.
(v) Agriculture.
(vi) Minerals.
(vii) Power Resources.

**Recommended Books:**