

Geography

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

Outlines of Tests

Paper	Title of Course	Marks
A:	Physical Geography (To be taught in BA/ B.Sc Part-I)	70
B	Human and Regional Geography (To be taught in BA/ B.Sc Part-II)	70
C:	Map Work and Practical	60
	i. Written Paper	15
	ii. Field Survey	15
	iii. Field Report	10
	iv. Viva Voce	10
	v. Record	10
Total:		200

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

Marks 70

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

11. Photographs
12. 6. CDs

Books Recommended:

10. Strahler.A.N and Strahler.A.N, A, H (2000) Physical environment , New York, John Wiley.
11. Chirtopherson ,R.W (2000) Geo system USA Prentice Hall,Inc
12. Well & Well and N (1998) Atmospheric and ocean , London Longman
13. Monhouse FJ (1996) Principles of Physical Geography, London Holder & Stoughton
14. Rathor, A H (1996) Tabi Geographia ,Islamabad Muqtadra Quami Zaban
15. D Blij ,H J & Muler PO (1996) physical Geography of the global environment ,USA John Wiley & Sons Inc.
16. Taylor, J : (1993) Integral physical Geography, London Longman
17. Melveen J.F.R (1989) Fundamentals of weather and climate Longman London Chapman & Hall
18. Small ,R.J Geomorphology and Hydrology London Longman
19. Strahler.A.N (2002) Introduction to Physical Geography , New Yrok John Wiley
20. Akram.I (2004) University Physical Geography, Lahore Ilmi Kitab Khana.

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:

- i) De Blij HJ & Miller (2000) Geography Realms, Regions and Concepts
New York, John Wiley.
- ii) De Blij HJ & Miller (2000) Human Geography Culture, society and space New York, John Wiley.
- iii) Kuby, M. Human Geography in action, New York, John Wiley.
- iv) Khan F.K An introduction to Economic Geography Karachi Saleem publishing house
- v) Brendonk RW (1982) Agriculture change in South Asia London John Murry

- vi) Khan FK (2002) Pakistan, Geography, Economy and People Karachi
- vii) Sethi H N (2005) Environment of Pakistan Peak publication & Co Karachi
- viii) Abbasi ,B,A (2008),A Regional Studies of South Asia Sang-e-Meel Publications ,Lahore.

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:Gnomonic, 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:

1. Maling D.H (1989) Measurements fro maps, oxford pergamon press
2. Briggs K. (1989) Practical Geography, London, Hodder and Stchghton
3. Khan J.A. (1993) Weather Maps interpretation of Pakistan Karachi, University of Karachi
4. Dent, B.D (1993) Elements of plane surveying, New York, Mc Graw Hill
5. Avery, Te & Berlin, GL (1991) Fundamentals of Remote sensing and Air Photo Interpretation New York Macmillaian
6. Miller, V.C. & Wsterback M.E (1997) An interpretation of Topographical Maps, Ohio Merrill publishing Co.
7. Robinson, A.N.(1999) Elements of Cartography, New York, John Willey
8. Burt ,E.T (1996) Elements of statistics for Geographers, New York Lawrence Elbtine

9. Campbell, J(1990)Introduction to cartography, Oxford, W.C.B
10. Ahmad ,K. S. (1973) Map Projections, Lahore, Oxford WCB
11. Leon A & Leon ,M (1999) Introduction to Computer Techniques
Chennai Leon Tech worlds
12. Den, B. D. (1993) Cartography ,Thematic Maps Design Oxford WCB
13. Saeed, Q. (2002) Map Projections, Publishers United (PVT) LTD
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Anarkali ,Lahore.

GEOGRAPHY : OPTIONAL

Outlines of Tests

Paper	Title of Course	Marks
A	General Geography of Pakistan	100

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:

1. Kazi, S. A, *A Geography of Pakistan*, Oxford University Press, Karachi.
2. Qureshi, K.U. (2003) *A Geography of Pakistan*, Lahore, Natural Book Service
3. Shams, F.A.(2002) *Land of Pakistan*, Lahore, Kitabistan Publishing Company