

UNIVERSITY OF BALOCHISTAN QUETTA
MA / MSc (ANNUAL) EXAMINATION .2015.

- Attention:- 1- Possession & Use of mobiles & other electronic accessories are strictly prohibited .
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Subject:-

GEOGRAPHY
Geomorphology

Paper:- I New II Old (Prev.)
Max : Marks : 100

Time Allowed :- 3 Hours

Note :- Attempt 05 Questions. in All But Question No. 1- in section -I is compulsory and the time for Section I is only 40 Minutes. After Expiry of the Time paper should be handed over to the supervisory staff.

SECTION -I (OBJECTIVE PORTION 20 MARKS)

Q.No.1

Part -a Define the following

10

1. Mass Wasting
2. Catastrophism
3. Places of Stream Deposition
4. Subduction zone
5. Types of Moraines
6. Drainage Density
7. Morphometric Analysis
8. River Terraces
9. Soil Profile
10. Metamorphism

Part - b Chose correct answer

10

1. **A mechanical weathering process caused by pressure release (or unloading) is:**
 1. Salt Wedging
 2. Hydrolysis
 3. Exfoliation
2. **In which environment is frost wedging likely to be prevalent?**
 1. a tropical rain forest
 2. a high mountain
 3. polar areas
3. **Which of the following is not at type of mechanical weathering?**
 1. root wedging
 2. unloading
 3. all of these are types of mechanical weathering
4. **Exfoliation is a natural process which results from:**
 1. activities of man
 2. thermal expansion of rocks
 3. unloading of deeply buried rocks
5. **The most common end product of the chemical weathering of quartz is:**
 1. clay
 2. calcite
 3. quartz does not weather chemically
6. **Rounding is:**
 1. the grinding away of sharp edges and corners of rock fragments during transportation
 2. weathering of sharp edges and corners of bedrock exposed at Earth's surface
 3. all of these
7. **At transform plate boundaries,**
 1. Two plates slip horizontally past each other.
 2. Two plates move in opposite directions toward each other.
 3. Two plates are subducted beneath each other.

8. **Earthquakes may be caused by:**
1. Movement Of Tectonic Plates.
2. Motion along Faults In Earth's Crust.
3. All Of These
9. **A subduction zone is most likely to be encountered:**
1. At a convergent plate boundary.
2. At a divergent plate boundary
3. At a transform plate boundary
10. **A ridge of sediment, usually sand or gravel, deposited in the middle or along the banks of a stream is called**
1. Bar
2. Natural Levees
3. V shape valley

SECTION –II(SUBJECTIVE PORTION 80- MARKS) TIME ALLOWED 2:20

Attempt any Four (04) questions.

- Q No.1 What is Rock? Discuss sedimentary rocks in detail.
- Q No.2 Write a detail note on the cycle of fluvial erosion?
- Q No.3 Describes various methods of Stream erosion and various landforms produced by fluvial erosion?
- Q No. 4. Write a detail note on the internal structure of the Earth?
- Q No.5 “Landforms are the product of structure, process and Time” Critically examine this statement with examples?
- Q No.6 Discuss various geographical factors which favors the development of soil.
- Q No.7 define weathering and discuss weathering as an important geomorphic agent for the development of various landforms. Illustrate your answer with suitable diagrams.

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Subject: GEOGRAPHY Paper: II Pre New
CLIMATOLOGY AND OCEANOGRAPHY III Pre Old
Time Allowed: 3 Hours Max. Marks: 100

Note: Attempt any five questions in all but question No-1, in Section- 1 is compulsory and the time for section- 1 is only 40 minutes. After expiry of the time paper should be handed over to the examiners.

SECTION- 1: OBJECTIVE PORTION 20 MARKS

Qust-1: Section-A: Fill in the blanks with appropriate term.

- I. The average weather condition of a place, usually measured annually is called _____.
- II. The _____ contains life-protecting ozone.
- III. The temperature at which an air parcel must be cooled to become saturated is known as _____.
- IV. The ratio between the light reflected from a surface and the total light falling on it is known as _____.
- V. _____ is the spontaneous rising of moist air due to instability.
- VI. _____ are thought to result from the general circulation structure in the regions where great high- and low-pressure areas meet.
- VII. Type of climate classification, based on statistical and mathematical parameters or physical characteristics, is called an _____.
- VIII. A sediment-covered, deep-sea plain about twelve to eighteen thousand feet below sea level is known as _____.
- IX. The isolated, mountain-shaped elevations more than three thousand feet high beneath the ocean surface are known as _____.
- X. A deep, steep-sided trough in an abyssal plain in the ocean is called _____.

Qust-1: Section-B: State your answer in one or two lines comprehensively.

- I. What is Short waves radiation?
- II. What is Perihelion?
- III. What is seasonal wind?
- IV. What is Temperature inversion?
- V. What is Anti Cyclone?
- VI. What are Doldrums?
- VII. What is La Nina?
- VIII. What is Wet Adiabatic lapse rate?
- IX. What is tide?
- X. What is coastal cell?

Section-II: (Subjective Portion) 80 Marks Time Allowed- 2:20 Hrs

Part-I: Note: Attempt any three questions, Draw suitable diagrams where required.

2. What is Atmosphere? Describe the vertical structure of atmosphere with reference to variation in temperature, pressure and vapor contents.
3. Given what you know of the sun's relation to life on Earth, explain why the solstices and equinoxes have been so important to climate all over the world.
4. What causes adiabatic cooling? Differentiate between the environmental lapse rate and adiabatic lapse rates.
5. Compare warm and cold fronts. How do they differ in duration and precipitation characteristics?
6. Why are temperature and precipitation the two atmospheric elements most widely used as the sources of statistics for climate classification? How are these two elements used in the Koppen system to identify six major climate categories?
7. Write short notes on any two of the following and its associated weather condition?
a. Heat Budget b. Global Warming c. Hydrological Cycle

Part-II: Attempt any one Question, Draw suitable diagrams where required.

8. What forces are responsible for the movement of ocean water in currents? What forces and factors influence the direction and nature of ocean currents?
9. How do human activities interfere with coastal processes? What steps can be taken to minimize losses of lives and properties along Pakistan coasts?

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Subject:- **GEOGRAPHY** . Paper:- III New IV Old (Prev)
Time Allowed :- 3 Hours Geography of Pakistan Max : Marks : 100

Note :- Attempt any Five Questions in All But Question No. 1- in section –I is compulsory and the time for Section- I is only 40 Minutes. After Expiry of the Time paper should be handed over to the supervisory staff.

SECTION –I (OBJECTIVE PORTION 20 MARKS)

Q.No.1 Give short answers:- (Attempt All)

- i. The area with population between 25 to 125 persons per square mile is called (High density, medrate density ,sparsely density)
- ii. Commercial agriculture is economic activity (Primary , Secondary , Tertiary)
- iii. Which province has highest density of population (Balochistan , Sind , Punjab)
- iv. Which province has small area (Punjab , Khybar Pakhtoon Khawa , Sind)
- v. The major cash crop of Pakistan is (Tabacoo, Cotton , Wheat)
- vi. LOC stand for -----
- vii. ----- is the capital of Pakistan .
- viii. CIA stand for -----
- ix. Photohar area is located in ---- Province .
- x. SSGC stand for -----
- xi. The highest mountains peak of Pakistan is -----
- xii. In Pakistan ---- is the largest ----- City in term of population .
- xiii. OGRA stand for -----
- xiv. The boarder li ne between Pakistan and Afghanistan is called ----
- xv. . The total number of district in Balochistan is -----
- xvi. Warsak dam is situated at ---- Province .
- xvii. The main raw material of comment industry is -----
- xviii. The study of physical features of particular area is called----
- xix. In the total population of Pakistan the share of Balochistan is -----%.
- xx. India is situated in the ----- of Pakistan .

SECTION –II(SUBJECTIVE PORTION 80- MARKS) TIME ALLOWED 2:20

Attempt three Questions from Part –I & one from Part-II.

PART-I

- Q.2. Indus plain is the most develop physical region of Pakistan explain .
- Q.3. Define and discuss the major irrigation system in Pakistan .
- Q.4. Suggest measures to protect and developed the fishing industry in Pakistan .
- Q.5. Discuss factors effecting agricultural production in Pakistan .
- Q.6. Discuss Pakistan relations with USA and China .
- Q.7. Write a note on strategic and economic position of Pakistan .

PART-II.

- Q.8. Write a note on the economic sources of Balochistan .
- Q.9. Define climate and also discuss the climate of Balochistan .

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Subject: Geography	<u>Settlement Geography</u>
Paper : IV Previous New	Maximum Marks 100
V Previous Old	Time allowed 03 hours

Note: Attempt any five questions in all including question **No.1 which is compulsory**.
Time for Q No.1 is 40 minutes . After 40 minutes this section of the paper should be handed over to the supervisory staff.

Section I

Q 1. Attempt any 20 questions out of the followings. All questions carry equal marks

- 1- introduced the term commuting zone while describing structure of cities?
- 2-urbanization means people living in cities but do not really have full filling jobs.
- 3- CBD stand for
- 4- Sector theory was presented by.....
- 5-used ecological factors to explain the spatial variations within the city
6. The term acropolis means.....
7. Metropolitan is used to describe
8. What is the difference between site and situation?
9. Who presented central place theory?
10. Concentric zone theory was presented in 19.....
11. Rank size rule states.....
12. Dispersed settlements are
13.presented the concept of garden cities.
14. Squatter settlements are
15. Migration from the urban to rural areas is known as
- 16.The transformation of poor areas by invasion of rich people is called....
- 17.Posh areas is an urban residential area that is
- 18.The spatial extant of sphere of influence of a settlement is also called
19. A country's leading city which is dominant not only in population size but also in its role is known as.....city.
- 20-The concentric zone theory was presented by
21. PLVI stand for.....
- 22- The process of urbanization in developing countries was rapid due to.....
- 23- Urban Land values arein the centre of the city.
- 24-land use has the highest proportion in the city of Quetta.
- 25settlements are situated on illegally occupied urban land.
26. Counter urbanization may be described as
- 27- Sector theory was presented by
28. Residential segregation is
- 29- Multiple nuclei theory was presented by
- 30-are urban areas where the environmental conditions are extremely unhygienic for residential purposes.

Section II

Time Allowed: 2: 40 Hours Maximum marks 80

Note: attempt any four questions from this section. All questions carry equal marks.

Q.2 Discuss in detail the basic concept and scope of settlement geography.

Q.3 What do you mean by push and pull factors? Describe the main factors behind these.

Q.4 Explain in detail the importance and significance of site and situation from the locational point of view.

Q.5 Give the criteria for classification of cities. Give the salient features of Nelson classification of American cities.

Q.6 How would you elaborate the concept of urban economic base? Give its application in geography.

Q.7 Compare the process of urbanization in the developed and developing countries.

Q.8 Discuss in detail the weaknesses and strengths of concentric zone theory.

Q.9 What is rank size rule? Discuss its significance and application.

Q.10 Write short notes on any two of the following:

- a. law of primate city
- b. Urban slums
- c. land use classification
- d. Pseudo- urbanization

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Subject:- **GEOGRAPHY.** Paper:- V-New VI-Old(Prev:)
Time Allowed :- 3 Hours **ECONOMIC GEOGRAPHY** Max : Marks : 100

Note :- Attempt Five Questions. in All But Question No. 1- in section –I is compulsory and the time for Section- I is only 40 Minutes. After Expiry of the Time paper should be handed over to the supervisory staff.

SECTION –I (OBJECTIVE PORTION 20 MARKS)

Q.No.1 Short Questions :- (Attempt All)

a. Fill in the following blanks.

- i. Economic geography studies the _____ on the earths' surface of activities related to producing, exchanging and consumption of goods and services.
- ii. _____ density is an expression of the ratio between population and a given unit of size.
- iii. The number of people in total population found in each age group is called _____.
- iv. Labor involved in tertiary economic activities is called _____.
- v. A branch of science of forestry concerned with the breeding, development and cultivation of forest trees is called _____.

b. Define the following terms?

- i. Mineral resources
- ii. Barter trade
- iii. Economic rent
- iv. Cultural determinism
- v. Renewable resources

SECTION –II(SUBJECTIVE PORTION 80- MARKS) TIME ALLOWED 2:20

Attempt any Four (04) questions.

- Q.2. Discuss the theory of environmental possibilism with examples.
- Q.3. What is agriculture? Discuss the types of agriculture based on supply of land, water availability, cropping system, volume of production and regions.
- Q.4. What is fishing? Discuss the important fishing grounds of the world.
- Q.5. What is demography? Explain the demographic transition model.
- Q.6. Discuss in detail the factors affecting distribution of population around the world?
- Q.7. Discuss the importance, distribution and international trade of coal at a global level?
- Q.8. Discuss the Webber theory of industrial location in detail?
- Q.9. Write explanatory notes on any two of the following.

- a) Nature of economic geography
- b) Approaches to economic geography
- c) Advantages & disadvantages of densely populated areas
- d) Classification of economic activities

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Subject:- GEOGRAPHY. Paper:- VII(Final)
Time Allowed :- 3 Hours GEOGRAPHIC THOUGHT Max : Marks : 100

Note :- Attempt Five Questions. in All But Question No. 1- in section -I is compulsory and the time for
Section- I is only 40 Minutes. After Expiry of the Time paper should be handed over to the supervisory staff.

SECTION -I (OBJECTIVE PORTION 20 MARKS)

Q.No.1. Write short answers of the following questions:

1. The word Geography was first used by the Greek scholar _____ in the third century BC.
2. _____ first introduced the sundial known as Gnomon.
3. It was Herodotus who first gave the idea of spherical earth. (True / False)
4. Alexander was the ruler of _____.
5. Strabo wrote a book named *Geography* comprising of _____ volumes.
6. _____ wrote the famous book of astronomy named Almagest.
7. Baghdad became a great seat of learning during the reign of Caliph _____.
8. _____ was the first European who reached India by circumnavigating African continent.
9. Muslim scholar named _____ reported the phenomenon of Monsoonal Winds
10. Carl Ritter's masterwork, *Die Erdkunde* comprised of _____ volumes.
11. The famous Muslim cartographer _____ corrected the erroneous Ptolemy book.
12. Columbus started his first voyage to discover new world in _____.
13. _____ was the first man who circumnavigate the earth by crossing the Pacific Ocean.
14. Gerhard Mercator developed the famous "Mercator Projection" in _____.
15. Alexander von Humboldt is considered as the Founder of Modern Geography. (True / False)
16. The monumental five-volume book written by Humboldt in 1845 is known as _____.
17. Carl Ritter and Humboldt died the same year in _____.
18. Portugal's Prince Henry "The Navigator" captured the Muslim base at Ceuta in _____ A.D.
19. _____ was a biggest supporter of environmentalism.
20. The school of Possibilism was developed by _____.

SECTION -II(SUBJECTIVE PORTION 80- MARKS) TIME ALLOWED 2:20

Attempt any Four (04) questions.

- Q.No.2. Discuss the Scope and Status of Geography.
- Q.No.3. Write a detailed account of the work of Greek Scholar Eratosthenes.
- Q.No.4. Give an account of the Romans contribution to Geographic thought.
- Q.No.5. Explain Muslim contribution to Geography in detail.
- Q.No.6. Write a detailed note on Alexander von Humboldt.
- Q.No.7. What do you know about the terms Determinism and Possibilism.
- Q.No.8. Write a comprehensive note on the Modern concepts and Traditions in Geography.
- Q.No.9. Write short notes on any TWO of the following:
- a. Future of Geography in Pakistan
 - b. Quantitative Revolution in Geography
 - c. GIS and Geography

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Subject: Geography Paper Geographic Information System Paper: VIII (Final)
Time allowed: 3 hours Max marks: 100

Note: Attempt 5 questions including question No. 1, which is compulsory. All questions carry equal marks.

Section-I (20 Marks/ 40 Minutes)

Q.1. attempt any 10 of the following

1. Define passive and active remote sensing.
2. What is GPS.
3. Explain attribute data.
4. What is Vector and Raster data sets.
5. What is great circle.
6. Define standard parallel.
7. What is geo-processing.
8. Explain the process of Overlay.
9. Define digital cartography.
10. Why there are 90 latitudes north of equator.
11. Explain the problems of spatial data.
12. GPS is useful in natural disasters. how?
13. Explain the process of change deduction.
14. What is geo-referencing?
15. Explain one standard and two standard parallels.

SECTION -II (SUBJECTIVE PORTION 80- MARKS) TIME ALLOWED 2:20
Attempt any Four (04) questions.

- Q.2. Define GIS, explain the use of GIS in Geography.
- Q.3. Provide a detailed account on data base management.
- Q.4. Explain the different types of spatial data.
- Q.5. Explain remote sensing and its types. Provide its application with examples.
- Q.6. GIS plays a great role in cartography. Justify your answer with examples.
- Q.7. Ho GPS works? Explain its function and applications.
- Q.8. What is map projection? Explain its major types and use.

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Subject:-

GEOGRAPHY.

Paper:- IX(Final)

Time Allowed :- 3 Hours

Regional Planning

Max : Marks : 100

Note :- Attempt Five Questions. in All But Question No. 1- in section -I is compulsory and the time for Section- I is only 40 Minutes. After Expiry of the Time paper should be handed over to the supervisory staff.

SECTION -I (OBJECTIVE PORTION 20 MARKS)

Q.No.1 Short Questions (Attempt All)

- 1 Write three types of planning.
- 2 What is secondary data?
- 3 Name the methods of delineation of functional region.
- 4 Define subjective view of a region.
- 5 What is growth pole theory?
- 6 Define devolution of power.
- 7 Define macro land use planning.
- 8 What is location quotient?
- 9 What are basic and non-basic sectors?
- 10 What is economic infrastructure?
- 11 Write the year of last population census in Pakistan.
- 12 What type of planning is required for Baluchistan?
- 13 Define area development plan.
- 14 Define radical approach.
- 15 What is planning Commission?
- 16 Define economic health.
- 17 When regional planning was started in Pakistan.
- 18 Define PC-I.
- 19 What is public participation?
- 20 What is overlay?

Section II Subjective Portion (80 Marks)

Attempt any four questions

- Q. No.2 Explain the Status and Scope of Regional Planning in detail.
- Q. No.3 What is planning process? Explain each step in detail.
- Q. No.4 Discuss the regional planning policy of Pakistan.
- Q. No.5 How the spatial imbalances of the economic health are identified in a Region.
- Q. No.6 Explain growth pole theory in detail and also discuss its role in the development of a region.
- Q. No.7 if Quetta is to be relocated somewhere else, what steps you would apply for a new site.
- Q. No.8 Explain the delineation of formal region in detail.