

Term End External Examination IV Semester (Session-2024)

Environmental Science

Course No and Title: BES22C403 Environmental Geoscience

Time: 2.15 hours Max Marks:100 Min. Marks:40

Section A: Objective Type Questions

Q1. Choose the appropriate Answer: (8x1.5=12)

- i. Which landform is commonly associated with convergent plate boundaries?
A Mid-ocean ridges B Rift valleys
C Mountain ranges D Ocean Trenches
- ii. During which season is the Earth closest to the Sun?
A Spring B Summer
C Autumn D Winter
- iii. Which of the following minerals is most commonly found in soil and is a primary component of clay?
A Quartz B Feldspar
C Calcite D Kaolinite
- iv. Which of the following elements is classified as a major geochemical element due to its abundance in the Earth's crust?
A Iron B Carbon
C Helium D Neon
- v. A tsunami is typically caused by:
A Underwater earthquake B High rainfall
C Volcanic eruption D Landslides
- vi. Which of the following is the largest river basin in India?
A Godavari Basin B Krishna Basin
C Ganga Basin D Chenab Basin
- vii. Western Disturbances are most likely to cause precipitation in which part of India?
A Eastern India B Western India
C Northern India D Southern India

viii. The trade winds are found in which region of the Earth's surface?

- A Polar regions B Tropics
C Sub-polar regions D Mid-latitude

Section-B: Descriptive Type Questions (Short Type)

Q2: Answer all the Questions (8 x 4 =32)

- i. How are rocks classified?
- ii. What are the important factors that effect the Earth's thermal environment?
- iii. What is physical weathering?
- iv. What processes contribute the formation of landforms?
- v. Briefly explain the causes of floods.
- vi. What is an aquifer? Name main types of aquifers.
- vii. What is El Nino?
- viii. What type of climate system is found in J&K? Name different seasons of J&K.

Section – C: Descriptive Type Questions (Medium Type)

Answer all the questions: (4 x 7=28)

Q3. What is plate tectonics? How do plate tectonics affect humans?

OR

Write a short note on energy budget of earth.

Q4. What is weathering? Give a brief account of soil weathering process.

OR

Write a note on cation exchange capacity.

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Q5. Briefly describe the causes, consequences and control measures of earthquakes

OR

What is hydrology? Give basic concept of hydrology.

Q6. What do you know about climatic system of India? Explain

OR

Write a detailed note on climatic system of Jammu and Kashmir.

Section – D: Descriptive Type Questions (Long Type)

Answer any two of the following: (2 x 14=28)

Q7. How are rocks formed? Explain three main types rocks.

Q8. Give an account of soil classification in India.

Q9. What is Darcy's law? What are its major applications and limitations?

Q10. What do you understand by western disturbances? Explain