

Bachelor of Science (B.Sc.) Sixth Semester
B.Sc.4525 - Geology : Paper-II (Elementary Hydrogeology and Environmental Geology)

P. Pages : 1

Time : Three Hours



GUG/W/18/1350

Max. Marks : 50

- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat sketches wherever necessary.

1. Give an account of the following : -
1) Zone of Aeration. 2) Zone of saturation.

OR

Give an account of Hydrologic characters of sedimentary rocks.

2. What is soil? Describe various types of soil.

OR

Discuss the environmental considerations in the construction of dams.

3. Write brief notes on the following :-

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|------------------------------------|-----------------|
| a) Influent and effluent seepages. | b) Porosity. |
| c) Soil erosion. | d) Lithosphere. |

OR

Write brief notes on the following :-

- | | |
|---------------------|----------------------------|
| e) Artesian wells. | f) Aquiclude and Aquifuge. |
| g) Coastal erosion. | h) Atmosphere. |

4. Write brief notes on the following :-

- | | |
|----------------------|---|
| a) Hydrologic cycle. | b) Hydrologic characters of schists and gneisses. |
| c) Landslides. | d) Air pollution. |

OR

Write brief notes on the following :-

- | | |
|------------------------|------------------------|
| e) Cone of depression. | f) Unconfined aquifer. |
| g) Soil pollution. | h) Hydrosphere. |

5. Write on each of the following in not more than two sentences solve **any ten**.

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|---------------------|--|
| a) Percolation. | b) Evaporation. |
| c) Precipitation. | d) Aquitard. |
| e) Permeability. | f) Name any two Ground water provinces in India. |
| g) Desertification. | h) Definition of environmental Geology. |
| i) Tsunami. | j) Biosphere. |
| k) Water pollution. | l) Ecosystem. |
