

**020B - Geology Paper-II : Elementary Hydrogeology and Environmental Geology**

P. Pages : 1

Time : Three Hours



**GUG/W/23/13358**

Max. Marks : 50

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

1. Describe with neat diagram zone of aeration and zone of saturation.

**OR**

Write short notes on the following:

- i) Springs
- ii) Elementary ideas about ground water flow.

2. Give an account of Aquifers and their classification.

**OR**

Discuss the following:

- i) Hydrogeologic characters of Igneous rocks.
- ii) Hydrogeological characters of Metamorphic rocks.

3. Discuss the Natural hazard such as earthquake and its impact on environment.

**OR**

Give a brief account of the following:

- i) Soil pollution
- ii) Soil degradation

4. Discuss the environmental considerations in construction of tunnels.

**OR**

Write short notes on the following:

- i) Pollution and its effect on natural ecosystem.
- ii) Interaction of Atmosphere on natural ecosystem.

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

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|----------------------------|---|
| a) Percolation             | b) Perched water table                          |
| c) Recharge                | d) Name any two ground water provinces of India |
| e) Primary porosity        | f) Definition of watershed                      |
| g) Red soil                | h) Humus  |
| i) Residual soil           | j) Anti pollutional measures                    |
| k) Definition of ecosystem | l) Biosphere                                    |

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