



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

1. What is meant by 'Soil degradation'? Discuss in detail 'Causes and preventive measures of soil pollution'.

OR

Write short notes on.

- a) Ecosystem.
- b) Greenhouse gases.
- c) Environmental problems in mining area.
- d) Causes of Air pollution.

2. Write an essay on "Environmental legislations".

OR

Write short notes on.

- a) Neotectonics.
- b) Flood hazards in Indogangetic plain.
- c) Causes of landslide.
- d) Problems of waste disposal.

3. Discuss in detail about the 'scope of geology in civil engineering and mining industry'. **16**

OR

Write short notes on.

- a) Engineering properties of building stones.
- b) Application of remote sensing in hydroelectric power projects.
- c) Rock discontinuities.
- d) Engineering Properties of soil.

4. What is 'R.Q.D. Analysis'? Give detail of 'core recovery and its preservation'. **16**

OR

Write short notes on.

- a) Airfield engineering.
- b) Geotechnical reports.
- c) Structural geological considerations of construction of bridge.
- d) Exploratory drilling.

5. Write notes on the following. **16**

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| a) BOD. | b) Causes of noise pollution. |
| c) Hazard Vs. Disaster. | d) Seismograph. |
| e) Common road aggregates. | f) Crushing strength of rock. |
| g) Embankment Dam. | h) Type of tunnels. |
