

M.Sc.(Geology) Third Semester (Old Course)  
**MSC2382 - Paper-II (Environmental Geology & Engineering Geology)**

P. Pages : 2

Time : Three Hours



**GUG/W/18/2267**

Max. Marks : 80

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

1. What is soil pollution? Discuss in detail the causes of soil pollution and its remedial measures.

**OR**

Write short notes on:

- a) CO<sub>2</sub> increase and global warming in the present atmosphere.
  - b) Causes and remedial measure of water pollution.
  - c) Pollution in the mining areas.
  - d) Physical domain of environment.
2. What is tsunami? Discuss causes of tsunami and its impact on environment.

**OR**

Write short notes on:

- a) Problems of urbanisation.
  - b) Flood hazards and their mitigation.
  - c) Environmental legislation.
  - d) Solar energy
3. Describe in detail the scope of geology in civil engineering and mining industry.

**OR**

Write short notes on:

- a) Engineering Properties of rocks.
- b) Physical character of building stones.
- c) Physical character of concrete aggregate.
- d) Use of remote sensing in engineering geology.

4. Describe in detail on the various methods used in the preparation and presentation of geotechnical reports.

**OR**

Write short notes on:

- a) Earthquake.
- b) A seismic design of building.
- c) Core logging.
- d) Preservation of cores.

5. Write short notes on the following.

- a) Sources of air pollution.
- b) Sources of noise pollution.
- c) Major river belts of India.
- d) Remedial measures of coastal erosion.
- e) Rock discontinuities.
- f) Physical character of metal.
- g) Core recovery.
- h) RQD Analysis.

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