

**PSCGEOT11-2 - Environmental Geology & Engineering Geology Paper-III**

P. Pages : 1

**GUG/W/18/11274**

Time : Three Hours



Max. Marks : 80

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

1. Give a detailed account of Impact of mining on environment.

**OR**

Write short notes on:

- a) Palco-temperature estimation from ice cores.
- b) Physical domain of environment.
- c) Chemical domain of environment.
- d) Soil pollution.

2. Give a detailed accounts of problems of urbanization and human population. Add a note on their impact on environment.

**OR**

Write short notes on:

- a) Geothermal energy.
- b) Causes of volcanic hazards.
- c) Causes of coastal erosion.
- d) Tidal energy.

3. Give a detailed account of physical characters of building stones, metal and concrete aggregates.

**OR**

Write short notes on :

- a) Use of remote sensing in engineering geology.
- b) Various stages of engineering geological investigations for civil engineering projects.
- c) Scope of geology in civil engineering.
- d) Scope of geology in mining industry.

4. Give a detailed account of geological investigations for dams and reservoir construction.

**OR**

Write short notes on:

- a) Core logging.
- b) Seismic zones of India.
- c) Geological investigations for airfield engineering.
- d) Preparation and presentation of geotechnical reports.

5. Write short notes on :

- a) Global warming and rise in atmospheric CO<sub>2</sub>.
- b) Biological domain of environment.
- c) Wind energy.
- d) Environmental legislations.
- e) Engineering properties of rocks.
- f) Engineering properties of soils.
- g) R. Q. D. Analysis.
- h) A seismic design of building.

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