

**2021**  
**ENVIRONMENTAL SCIENCE**  
**[HONOURS]**

**Paper : V**

Full Marks : 75

Time : 4 Hours

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **five** of the following:  $1 \times 5 = 5$
- Define EMP.
  - What is pedogenesis?
  - What is geo-stationary satellite?
  - What is topsoil?
  - What is vadose zone?
  - State main nutrients of soil.
  - What is polar-orbiting satellite?
2. Answer any **six** of the following:  $2 \times 6 = 12$
- How does GIS help in environmental quality monitoring?

- How does remote sensing help in sampling for water quality assessment?
  - What is Soil Pedon?
  - What is environmental audit concept?
  - What is soil profile?
  - What is the use of satellite image?
  - Give the objectives of environmental quality monitoring?
  - State the scope of EIA.
3. Answer any **three** of the following:  $6 \times 3 = 18$
- Discuss the certification audit system.
  - Discuss the preparation of Environment management plan.
  - Discuss the method of base line data generations.
  - What is social forestry? Discuss its importance.
  - Describe the process of weathering of rocks.
  - Discuss the role of geostationary satellite.

4. Answer any **four** of the following:  $10 \times 4 = 40$

- a) Discuss the sources of soil pollution and its management.
- b) Critically discuss the concept and application of EIA.
- c) Discuss the sources of surface and ground water pollution and their management.
- d) Give an overview on the classification of parent materials of soil.
- e) Describe the process involved in land use and land cover assessment.
- f) Critically discuss the concept and applications of environmental monitoring.

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