

2020
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: 1×5=5
 - a) What is vadose zone?
 - b) State main nutrients of soil.
 - c) What is polar-orbiting satellite?
 - d) Define EMP.
 - e) What is pedogenesis?
 - f) What is geo-stationary satellite?
 - g) What is topsoil?
2. Answer any **six** of the following: 2×6=12
 - a) What is soil profile?
 - b) What is the use of satellite image?

- c) Give the objectives of environmental quality monitoring?
 - d) State the scope of EIA.
 - e) How does GIS help in environmental quality monitoring?
 - f) How does remote sensing help in sampling for water quality assessment?
 - g) What is Soil Pedon?
 - h) What is environmental audit concept?
3. Answer any **three** of the following: 6×3=18
 - a) What is social forestry? Discuss its importance.
 - b) Describe the process of weathering of rocks.
 - c) Discuss the role of geostationary satellite.
 - d) Discuss the certification audit system.
 - e) Discuss the preparation of Environment management plan.
 - f) Discuss the method of base line data generations.
 4. Answer any **four** of the following: 10×4=40
 - a) Give an overview on the classification of parent materials of soil.

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