

2018

M.Sc.

Part-I Examination

ENVIRONMENTAL SCIENCE

PAPER—IV

Full Marks : 100

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.*

*Illustrate the answers wherever necessary.*

Answer Q. No. 1 and any five questions from the rest.

1. Answer any ten questions : 10×2

(i) How do you screen the EIA requirement of a developmental project ?

(ii) What is phytosociology ? Explain.

(Turn Over)

- (iii) What are the secondary data sources of socioeconomic studies and how do you utilise these data in EIA report ?
- (iv) State the differences between TDS and TSS.
- (v) Explain why development of green belt is an important component of Environment Management Plan (EMP).
- (vi) Enumerate the projects that require legislative compliance environmental audit for smooth operation ?
- (vii) What is Environmental Appraisal Committee ? Explain.
- (viii) What is Forest Clearance ? Why and when it is required in EIA studies ?
- (ix) What is pollution tolerant species ? What is its relevance in EIA/EMP report preparation ?
- (x) What is importance of the cost-benefit analysis of a developmental project ? Explain.
- (xi) How EIA guidelines of various developmental projects were prepared ? Explain.
- (xii) Briefly narrate the role of State Pollution Control Board in environmental clearance process of various development projects.

- (xiii) What is 'Term of Reference (TOR)' ? Explain.
- (xiv) What is environmental impact statement ? Explain.
- (xv) Briefly narrate the role of NABET in registration of EIA consultant.
2. Define land use ? Describe the methods adopted for land use land cover assessment of an area. 2+14
3. By means of a Flow Chart writedown the steps to the EMP of a Thermal power plant. Discuss the mechanism of operation and principles of some air pollution control equipments in power plants. 8+8
4. Discuss the steps and parameters required for generation of baseline environmental importance relating to Ecology and Biodiversity assessment of an area. 4+12
5. Discuss the legal basis of EIA notification. What are the projects which does not require any formal EIA-EMP report and why ? 8+8
6. What are the benefits of environmental audit ? How does it differs from ISO 14000 audit ? Explain. 8+8
7. Critically discuss the procedure for reviewing environmental impact analysis and statement. 16

8. Discuss the relevance of CRZ notification in EIA of coastal projects. 16
9. Critically discuss the relevance of 'Public hearing' in Environmental Clearance Process and the role of State Pollution Control Board in this context. 16
10. What is rehabilitation ? Why it is important for implementation of various mega-developmental policy ? Discuss the national or international policy on rehabilitation activities. 2+6+8
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