

Total Pages—4

M.Tech-2nd
ESE

(Set-1)

M.Tech-2nd (ESE)
Environmental Impact & Risk Assessment

Full Marks : 70

Time : 3 hours

Answer any **six** questions including
Q.No.1 which is compulsory

The figures in the right-hand margin indicate marks

1. Answer the following questions : 2 × 10
- (a) What are basics in EIA ?
 - (b) What is PPM ?
 - (c) Define screening and scoping.
 - (d) What is public hearing ?
 - (e) Show a flowchart of environmental clearance process in India.

(Turn Over)

- (Set-1)
- (f) Name four environmental laws of Government of India. 5
- (g) What is an EMP? 5
- (h) In which case adhoc method of EIA is suitable? 5
- (i) Distinguish between direct impact and indirect impact. 5
- (j) What is meant by region of influence while predicting impacts on socio-economic environment? 5
2. (a) Briefly discuss about the steps involved in EIA as a planning tool for any major project activity. 5
- (b) List the industries for which EIA is made mandatory in the EIA notification of MOEF Government of India. 5
3. (a) Briefly discuss economic valuation methods. 5
- (b) Briefly discuss about the Leopold matrix method. 5

4. (a) Discuss the sources of air pollutants and their effect on environment. 5
- (b) List the steps that are to be followed when conducting EIA for air environment. 5
5. (a) Discuss in brief the steps involved for prediction and assessment of socio-economic impacts of any major project. 5
- (b) Briefly discuss about environmental health impact assessment. 5
6. (a) Briefly discuss about the steps to be followed to get environmental clearance from Government of India before starting a project. 5
- (b) Briefly discuss the uncertainties involved in EIA. 5
7. (a) Briefly discuss about the environmental laws by Government of India for managing water. 5
- (b) Briefly discuss about the environmental laws by Government of India for managing air. 5

(4)

8. Write short notes on any *two* : 5 × 2

- (i) Cost-Benefit analysis
- (ii) Potential impacts of roads and industrial development on surface water
- (iii) Environmental risk analysis
- (iv) Environmental impact statement
- (v) Checklist method of decision making.