

R16

Code No: 138GB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, July - 2023

ENVIRONMENTAL IMPACT ASSESSMENT

(Common to EEE, ME, ECE, CSE, IT)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

(25 Marks)

- 1.a) What is baseline data in case of EIA? [2]
- b) Mention one example each for a “positive”, “negative”, “direct” and “indirect” impact of a developmental project. [3]
- c) List the advantages of matrix method for impact analysis. [2]
- d) What are adhoc methods? [3]
- e) Write any two principles used for water quality prediction in case of running water bodies? [2]
- f) What are the causes of soil erosion? [3]
- g) What is an Environmental management plan? [2]
- h) What is the role of pollution control boards in environmental management? [3]
- i) Write the necessity of legislations for pollution control. [2]
- j) List any four adverse effects of sugar cane industry on the environment. [3]

PART – B

(50 Marks)

2. Explain Network and overlay method for EIA impact analysis? Give examples for both the methods of analysis. [10]
- OR**
3. Discuss the main features of Impact Evaluation and Analysis? What are the important factors that are to be considered for any effective EIA? [10]
4. Discuss the qualitative, simple quantitative and specific quantitative methods for impact prediction on soil and groundwater environment? [10]
- OR**
5. What are the important features of land, which have to be taken into consideration for assessing the impacts of different land uses in developmental projects? [10]
6. What is meant by impact prediction with reference to the soil environment? Discuss the application of various mathematical models for impact prediction. [10]
- OR**
7. Discuss the principles and main aims of any impact mitigation. Explain a few mitigation measures to control the soil impacts of any developmental project. [10]

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8. What are the different types of environmental audits and explain their benefits? [10]

OR

9. What are the different stages of environmental audit? Write a short note on the onsite activities of an audit. [10]

10. What are the environmental impacts of a thermal power plant? Discuss. [10]

OR

11. Write a brief note on the Indian wildlife (protection) act, 1972 and the water (prevention and control of pollution) act 1974. [10]

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