

R18

Code No: 158DF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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

ENVIRONMENTAL IMPACT ASSESSMENT

(Common to ME, ECE, MMT, AE, MIE)

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 the importance of baseline data collection in EIA studies? [2]
- b) Explain the concept of impact prediction in EIA. [3]
- c) What are the criteria for selecting an appropriate EIA methodology for a specific project? [2]
- d) Explain the process of impact identification in EIA. [3]
- e) What is the significance of pre-appraisal and appraisal in relation to an EMP? [2]
- f) What is the role of remote sensing in monitoring an EMP? [3]
- g) Write a short note on LCA. [2]
- h) What are the responsibilities of government in addressing environmental issues? [3]
- i) What are the factors to be considered to prepare EIA in the case of nuclear fuel complex? [2]
- j) Give the importance of socio-economic factors in constructing air ports? [3]

PART – B

(50 Marks)

- 2.a) Discuss the components of an EIA study. Explain the key elements that should be included in an EIA report.
- b) Explain the roles and responsibilities of the Expert Committee and other regulatory bodies involved in granting environmental clearance. [5+5]

OR

- 3.a) Explain the process of identifying and designing measures to prevent, minimize, or compensate for adverse environmental impacts
- b) What is the role of public hearings in the EIA process? [5+5]

- 4.a) Explain how checklists help in systematically identifying and evaluating potential impacts based on predefined criteria.
- b) Analyze the strengths and weaknesses of checklist methods and their suitability for different project contexts. [5+5]

OR

- 5.a) Discuss how matrices are used to assess the interactions between project activities and environmental components.
- b) Provide examples of matrix-based approaches and discuss their effectiveness in capturing complex relationships and cumulative impacts. [5+5]

