

**R18**

**Code No: 158DF**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

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

**ENVIRONMENTAL IMPACT ASSESSMENT**

**(Common to EEE, 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) Explain the present scenario in India regarding “Environmental impact assessment”. [2]
- b) Define “Environmental Impact Assessment (EIA)” and discuss the need for EIA with a suitable example. [3]
- c) Explain impact identification with a suitable example. [2]
- d) Explain Overlays methods with a suitable example. [3]
- e) What are ISO 14000 and ISO 14001? [2]
- f) Explain Environmental Management Plan (EMP) preparation methods. [3]
- g) Explain “Wild Life Act 1972”. [2]
- h) Explain “The Environment (Protection) Act 1986.” [3]
- i) What is an initial environmental examination? [2]
- j) Explain the detailed contents of the EIA Report. [3]

**PART – B**

**(50 Marks)**

- 2.a) Discuss the importance, procedure, advantages, and disadvantages of the public hearing process in environmental impact assessment.
  - b) Discuss objectives, merits, and demerits of environmental impact assessment. [5+5]
- OR**
- 3.a) Give details of the environmental clearance process in India with the time involved in each step.
  - b) Discuss the need of EIA for engineering projects. [5+5]
- 4.a) Discuss the strength, weaknesses, and applicability of various methodologies of EIA.
  - b) What are the basic criteria to select an appropriate methodology for a specific project? [5+5]
- OR**
- 5.a) Discuss methodologies for the identification of potential environmental impacts of typical engineering projects.
  - b) Explain the different characteristics that impact evaluation methods should have. [5+5]
- 6.a) What is Environmental Management Plan, explain with a suitable example.
  - b) Differentiate between EIA & Environmental Management Plan. [5+5]
- OR**
- 7.a) Discuss in detail the requirements of an “Environmental management plan”.
  - b) Describe the management audit in detail with a suitable example. [5+5]

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8.a) What is Environmental Audit? What are its Objectives? What the types of Environmental Audits? Is it necessary to conduct Environmental audits for any project? Justify.

b) What are the activities at the site to be carried out for the environmental audit? [5+5]

**OR**

9.a) Draw the schematic diagram for a conceptual approach to the study focused on surface water Environment impacts.

b) Discuss the need for public awareness of environmental impact assessment. [5+5]

10.a) What are the causes and effects of land degradation?

b) List the various types of data required to describe existing environmental conditions for impact assessment? [5+5]

**OR**

11.a) What are the impacts of deforestation?

b) Write a detailed note on the role of EIA as an approach to achieving sustainable development. [5+5]

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