



P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester, B.E. - Civil Engineering

Semester End Examination; July - 2023

Environmental Impact Assessment

Time: 3 hrs

Max. Marks: 100

Course Outcomes

The Students will be able to:

CO1 - Understand the strengths of EIA in regard to environmental management. Appreciate the purpose and role of EIA in the decision-making process. Understand the technical and social/political limitations of EIA.

CO2 - Understand the Environmental Acts of India.

CO3 - Understand the Screening process, scoping process and how we applied in the different projects.

CO4 - Assess and Predict Impacts on Attributes and have knowledge (Environmental Impact Statement, or Environmental Statement) of EIA Report.

Note: I) PART - A is compulsory. Two marks for each question.

II) PART - B: Answer any **Two** sub questions (from a, b, c) for a Maximum of **18 marks** from each unit.

Q. No.	Questions	Marks	BLs	COs	POs
I : PART - A		10			
1 a.	Define EIA and EIS.	2	L1	CO1	PO1,2
b.	List out the various EIA methodologies.	2	L1	CO1	PO1,2
c.	Mention any four objectives of Environmental audit.	2	L1	CO2	PO1,2
d.	What is visual impact assessment?	2	L1	CO3	PO2,3
e.	What are the main examples of public participation in EIA?	2	L1	CO4	PO2,3
II : PART - B		90			
UNIT - I		18			
2 a.	Brief out the concept of EIA and mention the requirements of EIA.	9	L2	CO1	PO1,2
b.	Mention the objectives and limitations of EIA.	9	L3	CO1	PO1,2
c.	Explain in detail, the step by step procedure of conducting EIA.	9	L4	CO1	PO1,2
UNIT - II		18			
3 a.	What are the main criteria for the selection of EIA methodology?	9	L2	CO1	PO2,3
b.	List out the various methodologies of EIA and explain check list method.	9	L3	CO1	PO2,3
c.	Write a short note on:				
	i) Cost/benefit analysis	9	L2,3	CO1	PO2,3
	ii) Network methods				
UNIT - III		18			
4 a.	Mention the objectives and principle areas of environmental auditing.	9	L2	CO2	PO1,3
b.	Write a short note on:				
	i) Water act	9	L3	CO2	PO1,3
	ii) wild life act				
c.	Explain the stages of Environmental auditing.	9	L4	CO2	PO1,3

UNIT - IV**18**

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|------|---|---|----|-----|-------|
| 5 a. | Explain the prediction and assessment of impact of development activity on land and soil. | 9 | L3 | CO3 | PO2,3 |
| b. | Write a short note on prediction and assessment of impact of development activities on: | | | | |
| i) | Air | 9 | L4 | CO3 | PO2,3 |
| | ii) Biological Environment | | | | |
| | iii) Socio-Economic analysis | | | | |
| c. | Briefly explain the preparation of EIA document and EIS. | 9 | L4 | CO3 | PO2,3 |

UNIT - V**18**

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|------|--|---|----|-----|-------|
| 6 a. | Write any case study of EIA on thermal power plant projects. | 9 | L3 | CO4 | PO2,3 |
| b. | Explain the objectives and techniques of public participation in decision making of EIA. | 9 | L4 | CO4 | PO2,3 |
| c. | Write any case study of EIA on construction projects. | 9 | L4 | CO4 | PO2,3 |

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