

**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 / Aug. - 2022****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			
I a.	Define EIA and EIS.	2	L1	CO1	1,2
b.	What are the main criteria for selection of EIA methodology?	2	L1	CO1	1,2
c.	Mention different types of Environmental audit.	2	L1	CO2	1,2
d.	Write cause for deforestation.	2	L1	CO3	2,3
e.	What are the main objectives of public participation in EIA?	2	L1	CO4	2,3
II : PART - B		90			
UNIT - I		18			
1 a.	Explain the elements, objectives and limitations of EIA.	9	L2	CO1	1,2
b.	Explain in detail, the step by step procedure of conducting EIA.	9	L3	CO1	1,2
c.	Write a short note on:	9	L4	CO1	1,2
	i) REIA ii) FONSI iii) CEIA				
UNIT - II		18			
2 a.	Explain the main criteria for the selection of EIA methodology.	9	L2	CO1	2,3
b.	Explain in detail the check list and network methodologies of EIA.	9	L3	CO1	2,3
c.	Write a short note on:	9	L2		
	i) Ad-hoc methods ii) Cost / benefit analysis iii) Matrice methods		L3	CO1	2,3
UNIT - III		18			
3 a.	Explain briefly objectives and types of environmental audit.	9	L2	CO2	1,3
b.	Explain the evaluation of audit data and preparation of audit report.	9	L3	CO2	1,3
c.	Write a short note on:	9	L4	CO2	1,3
	i) Environmental pollution act ii) Water act				
	iii) The air (prevention and control of pollution act)				

UNIT - IV**18**

- 4 a. Explain the prediction and assessment of impact of developmental activity on surface water. 9 L3 CO3 2,3
- b. Write a short note on:
- i) Prediction and assessment of visual impact 9 L4 CO3 2,3
- ii) Socio-Economic Impact analysis
- c. Briefly explain the preparation of EIA documents. 9 L4 CO3 2,3

UNIT - V**18**

- 5 a. Write any case study of EIA on nuclear power plants. 9 L3 CO4 2,3
- b. What is the importance of public participation in environmental decision making? State the advantages and disadvantages of public participation. 9 L4 CO4 2,3
- c. Explain the practical consideration in preparing in EIA and EIS. 9 L4 CO4 2,3

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