



RollNo.

ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)

B.E. /B.Tech / B. Arch (Full Time) - END SEMESTER EXAMINATIONS, May 2025

CIVIL Department - Minors

Semester - VI

CEM507 & Environmental Impact Assessment

(Regulation2019)

Time:3hrs

Max.Marks: 100

CO1	Understand need for environmental clearance, its legal procedure, need of EIA, its types, stakeholders and their roles
CO2	Understand various stages of conducting EIA study
CO3	Understand relationship between social impacts and change in community due to development activities and rehabilitation methods
CO4	prepare environmental management and monitoring plan
CO5	Understand conduct and prepare the reports based on on case studies

BL – Bloom's Taxonomy Levels

(L1-Remembering, L2-Understanding, L3-Applying, L4-Analysing, L5-Evaluating, L6-Creating)

PART- A(10x2=20Marks)
(Answer all Questions)

Q.No.	Questions	Marks	CO	BL
1	What is the need for doing EIA process for a project? What are its benefits?	2	1	L1
2	What is meant by 'Scoping' in EIA process?	2	1	L2
3	Differentiate between Survey and Surveillance.	2	2	L1
4	Define Strategic Impact Assessment (SIA).	2	2	L2
5	What is meant by environmental clearance	2	3	L1
6	Write down the different types of social Impacts.	2	3	L1
7	What are the various key variables that are often correlated with adverse social impacts of development proposals.	2	4	L2
8	Define SEA.	2	4	L1
9	What do you mean by sustainable development?	2	5	L2
10	What is the role of the central government on EIA?	2	5	L1

PART- B(5x 13=65Marks)
(Restrict to a maximum of 2 subdivisions)

Q.No.	Questions	Marks	CO	BL
11 (a)	Explain the Principles of EIA.	13	1	L1
	OR			
11 (b)	Explain the step by step procedure for conducting EIA.	13	1	L2
12 (a)	Explain any two modeling methods with example.	13	2	L1
	OR			
12 (b)	What are the various methodologies for impact prediction in EIA. Discuss Eco mapping and check list method in brief.	13	2	L1

13 (a)	Define an Environmental Monitoring Plan (EMP), Explain the objectives and scope of EMP. Explain EMP for air, noise and waste for project.	13	3	<u>L1</u>
OR				
13 (b)	Explain the various mitigation measures carried out for different components.	13	3	<u>L2</u>
OR				
14 (a)	Write brief note on cultural and Socio - Economic Environment.	13	4	<u>L1</u>
OR				
14 (b)	Explain the various factors considered for air emission models.	13	4	<u>L2</u>
OR				
15 (a)	Report the General Guidelines for Preparation of TORs for EIA.	13	5	<u>L1</u>
OR				
15 (b)	What is meant by cost benefit analysis(CBA)? Write the general application of CBA for project. List the advantages and disadvantages of CBA in a project.	13	5	<u>L2</u>

PART- C(1x 15=15Marks)
(Q.No.16 is compulsory)

Q.No.	Questions	Marks	CO	BL
16.	Discuss the importance of public participation in environmental decision making. List the advantages and disadvantages of public participation in EIA studies.	15	3	<u>L2</u>

