



NARASIMHA REDDY ENGINEERING COLLEGE
(Autonomous)
Approved by AICTE, New Delhi & Affiliated to JNTUH,
Hyderabad
Accredited by NAAC with A Grade, Accredited by NBA

CIVIL ENGINEERING
QUESTION BANK

Course Title : ENVIRONMENTAL IMPACT ASSESSMENT

Course Code : CE4121OE

Regulation : NR21

Course Objectives: The objectives of the course are to
 Define and Classify Environmental Impacts and the terminology
 Understands the environmental Impact assessment procedure
 Explain the EIA methodology
 List and describe environmental audits

Course Outcomes: At the end of the course the student will be able to
 Identify the environmental attributes to be considered for the EIA study
 Formulate objectives of the EIA studies
 Identify the methodology to prepare rapid EIA
 Prepare EIA reports and environmental management plans

UNIT-I
BASIC CONCEPT OF EIA

S.No	Questions	BT	CO	PO
Part – A (Short Answer Questions)				
1	What is Base map?	L1	CO1	PO1
2	What are the objectives of Environmental Impact Assessment (EIA)?	L4	CO1	PO7
3	Describe matrix method in detail	L1	CO1	PO2
4	Give a brief account on cost benefit analysis of EIA.	L1	CO1	PO6
5	Discuss objectives, merits and demerits of EIA.	L6	CO1	PO7
6	What is overlay methods.	L2	CO1	PO2
7	Discuss objectives, merits and demerits of EIA.	L6	CO1	PO7
8	What is EIA? Explain	L2	CO1	PO5
9	Describe the EIA methodologies	L1	CO1	PO2
10	Explain the Basic concept of EIA.	L5	CO1	PO1
Part – B (Long Answer Questions)				
11	a) Explain the role of stakeholders in the EIA preparation.	L4	CO1	PO1
	b) Define Planning. Explain environmental management planning. Give two practical examples.	L2	CO1	PO5
12	a) Explain about the Network method Environmental Media.	L5	CO1	PO7
	b) Write about quality index method for carrying out EIA	L2	CO1	PO6
13	a) Explain about the preparation of Environmental Base map.	L5	CO1	PO2
	b) Explain the limitations of EIA.	L5	CO1	PO7

14	a)	Develop Environmental base map preparation and explain the factors affecting EIA impact evaluation and analysis	L6	CO1	PO1
	b)	Explain the importance of EIA for developmental projects	L5	CO1	PO11
15	a)	Describe how matrix method is used for EIA of mining project	L1	CO1	PO2
	b)	Discuss objectives, merits and demerits of EIA.	L6	CO1	PO1
16	a)	Explain how you use check list method for EIA? What are the advantages of check list method over matrix method?	L5	CO1	PO2
	b)	Describe Ad-hoc method in detail	L1	CO1	PO2

UNIT-II
ASSESSMENT OF EIA

S.No	Questions		BT	CO	PO
Part – A (Short Answer Questions)					
1		Assess and predict the impacts of project activity on biological environment.	L2	CO2	PO2
2		Discuss on development activities on EIA.	L6	CO2	PO4
3		Write the methodology for assessment of ground water characteristics in the study area?	L1	CO2	PO2
4		Explain the development activities on vegetation with example	L5	CO2	PO5
5		Write the methodology for assessment of ground water characteristics in the study area?	L2	CO2	PO7
6		Explain in detail about impact significance and mitigation measures	L5	CO2	PO5
7		How do you plan to evaluate the impact of a project on vegetation?	L2	CO2	PO11
8		Explain different methods used for prediction of environmental impacts.	L5	CO2	PO2
9		Discuss about environmental indices for water and air quality.	L6	CO2	PO5
10		Write a note on Sustainable Forest management.	L1	CO2	PO11
Part – B (Long Answer Questions)					
11	a)	How do you plan to evaluate the impact of a project on vegetation? Present step by step procedure for the evaluation of impacts on vegetation	L5	CO2	PO11
	b)	Explain methods adopted to reduce the impact of projects on wildlife.	L5	CO2	PO2
12	a)	Assess and predict the impacts of project activity on biological environment	L2	CO2	PO2
	b)	Differentiate direct and indirect impact in vegetation	L2	CO2	PO4
13	a)	Explain the development activities on vegetation with example?	L5	CO2	PO7
	b)	Write the methodology for assessment of ground water characteristics in the study area?	L2	CO2	PO2
14	a)	Analyze the causes for deforestation and evaluate the environmental impacts of deforestation.	L4	CO2	PO7
	b)	Discuss on development activities on EIA.	L6	CO2	PO2

15	a)	Deforestation is one of the global concerns of today. In this context, discuss the following: a) Causes of deforestation b) Sustainable forest management.	L2	CO2	PO7
	b)	Provide an example of an activity that can adversely impact the air environment and suggest an appropriate mitigation action.	L2	CO2	PO1
16	a)	Discuss about environmental indices for water and air quality.	L6	CO2	PO5
	b)	Explain different methods used for prediction of environmental impacts.	L5	CO2	PO7

UNIT-III
PROCUREMENT OF EIA

S.No	Questions	BT	CO	PO	
Part – A (Short Answer Questions)					
1	Explain different methods used for prediction of environmental impacts	L5	CO3	PO7	
2	Write on Procurement of soil quality	L2	CO3	PO5	
3	What are the generic impacts of projects on flora and fauna?	L4	CO3	PO11	
4	Explain mitigation measures to control soil erosion.	L5	CO3	PO2	
5	How do you plan to control dust pollution in mine site?	L2	CO3	PO3	
6	Explain in detail about impact significance and mitigation measures.	L5	CO3	PO5	
7	Explain the salient aspects and importance of EMP in EIA process	L5	CO3	PO7	
8	Evaluate impact prediction and describe the identification and incorporation of soil pollution mitigation measures.	L5	CO3	PO2	
9	Analyze the procurement of relevant soil quality and assess the impact significance	L4	CO3	PO7	
10	Discuss in detail about the general methodology for the assessment of impacts of developmental activities on soil environment	L5	CO3	PO5	
Part – B (Long Answer Questions)					
11	a)	Explain in detail about impact significance and mitigation measures.	L5	CO3	PO5
	b)	Analyze the procurement of relevant soil quality and assess the impact significance	L4	CO3	PO7
12	a)	Discuss the mitigation measures for soil and groundwater impacts.	L5	CO3	PO5
	b)	Discuss in detail about the general methodology for the assessment of impacts of developmental activities on soil environment	L5	CO3	PO5
13	a)	Explain different methods used for prediction of environmental impacts	L5	CO3	PO7
	b)	How do you plan to control dust pollution in mine site?	L1	CO3	PO7
14	a)	Explain the salient aspects and importance of EMP in EIA process	L5	CO3	PO11

	b)	Write on Procurement of soil quality	L1	CO3	PO2
15	a)	Considering thermal power project as an example, explain the appropriate mitigation measures to control environmental impacts of the power plant.	L2	CO3	PO5
	b)	What are the generic impacts of projects on flora and fauna?	L4	CO3	PO2
16	a)	Evaluate impact prediction and describe the identification and incorporation of soil pollution mitigation measures.	L5	CO3	PO6
	b)	Write causes and effects of deforestation	L1	CO3	PO3

UNIT-IV
ENVIRONMENTAL AUDIT

S.No		Questions	BT	CO	PO
Part – A (Short Answer Questions)					
1		What is the purpose of post Environmental Audit?	L1	CO4	PO1
2		What are the steps involved in pre audit activities?	L4	CO4	PO1
3		What is Audit data?	L1	CO4	PO2
4		What are the principle areas of environmental auditing?	L4	CO4	PO2
5		Discuss evaluation of audit data and preparation of Audit report.	L5	CO4	PO5
6		How often environment audit are conducted in an organization?	L1	CO4	PO7
7		What are the main Objectives of Environmental Audit? Explain.	L4	CO4	
8		What are the Post Audit Activities?	L4	CO4	PO2
9		Describe the process of Audit protocol.	L1	CO4	PO6
10		Explain the On-site audit and Post audit activities.	L5	CO4	PO6
Part – B (Long Answer Questions)					
11	a)	Explaining the importance of Environmental Audit, describe how it can help in mitigation of impacts.	L5	CO4	PO7
	b)	Write notes on: i) Audit protocol ii) Post audit	L1	CO4	PO5
12	a)	What are the main Objectives of Environmental Audit? Explain.	L4	CO4	PO5
	b)	What is environment audit? What are its main objectives and discuss the advantages of the same.	L1	CO4	PO6
13	a)	How often environment audit are conducted in an organization?	L1	CO4	PO7
	b)	What are the principle areas of environmental auditing	L4	CO4	PO7
14	a)	Discuss evaluation of audit data and preparation of Audit report.	L5	CO4	PO11
	b)	Bring out detailed comparison between an environmental review and an environmental audit	L1	CO4	PO11
15	a)	What are the steps involved in pre audit activities?	L1	CO4	PO2
	b)	What is the purpose of post Environmental Audit?	L1	CO4	PO2
16	a)	Explain the On-site audit and Post audit activities.	L5	CO4	PO1
	b)	What is Audit data?	L1	CO4	PO2

UNIT-V
ENVIRONMENTAL PROTECTION ACT

S.No	Questions	BT	CO	PO	
Part – A (Short Answer Questions)					
1	Write a note on the environmental protection act	L2	CO5	PO2	
2	What are the powers of State pollution control boards?	L4	CO5	PO2	
3	Develop and analyze an EIA report for a steel plant near coastal area	L6	CO5	PO3	
4	Explain one case study on EIA in Industries.	L5	CO5	PO7	
5	Describe different sources of air pollution	L1	CO5	PO7	
6	Discuss the importance of EMP. Explain how it is prepared taking thermal power plant as an example	L6	CO5	PO3	
7	Describe the salient features of i) Motor Act ii) Wild life act	L1	CO5	PO2	
8	Describe the salient features of i) Water Act ii) Air act	L1	CO5	PO2	
9	Present salient aspect of The Environmental Protection Act and take holders in implementation of this act.	L2	CO5	PO5	
10	Write a detailed note on generalized approach for assessment of air pollutionImpact.	L1	CO5	PO2	
Part – B (Long Answer Questions)					
11	a)	Explain the importance of Environmental regulation.	L2	CO5	PO2
	b)	Describe the salient features of i) Water Act ii) Air act	L1	CO5	PO2
12	a)	Explain the various issues to be considered during the planning stages of an industry in order to reduce environmental impacts	L5	CO5	PO5
	b)	Describe the salient features of i) Motor Act ii) Wild life act	L1	CO5	PO7
13	a)	Explain one case study on EIA in Industries.	L5	CO5	PO2
	b)	Write a note on the environmental protection act	L1	CO5	PO5
14	a)	Explain the various issues to be considered during the planning stages of an industry in order to reduce environmental impacts	L5	CO5	PO7
	b)	Develop and analyze an EIA report for a steel plant near coastal area	L6	CO5	PO7
15	a)	Present salient aspect of The Environmental Protection Act and take holders in implementation of this act.	L2	CO5	PO7
	b)	Describe different sources of air pollution	L1	CO5	PO7
16	a)	Discuss the importance of EMP. Explain how it is prepared taking thermal power plant as an example	L6	CO5	PO2
	b)	What are the powers of State pollution control boards?	L4	CO5	PO7

* **Blooms Taxonomy Level (BT)** (L1 – Remembering; L2 – Understanding; L3 – Applying; L4 – Analyzing; L5 – Evaluating; L6 – Creating)

Course Outcomes (CO)

Program Outcomes (PO)

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