



**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**

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QUESTION BANK (DESCRIPTIVE)

Subject with Code: Environmental Impact Assessment & Management(20CE0146)

Course & Branch: B.Tech & CIVIL

Year & Sem: IV Year & I Sem

Regulation: R20

**UNIT –I
INTRODUCTION**

1	a	Explain the basic concept of EIA.	[L2][CO1]	[6M]
	b	Explain the salient features of EIA.	[L2][CO1]	[6M]
2		Explain in detail about EIA Procedure?	[L2][CO1]	[12M]
3	a	Explain about the identification of impacts on the environment by preliminary assessment?	[L2][CO1]	[8M]
	b	List out the classification of environmental parameters in EIA	[L1][CO1]	[4M]
4	a	Write in detail about the impact evaluation and analysis.	[L1][CO1]	[6M]
	b	What are the analytical functions associated with the EIA?	[L1][CO1]	[6M]
5		Describe in detail about the classification and prediction of impacts?	[L2][CO1]	[12M]
6	a	Mention any four types of events in cumulative impacts.	[L2][CO1]	[5M]
	b	Give a detail note on preparation of EBM.	[L2][CO1]	[7M]
7		What are the various stages in preparation of an EIA Report?	[L1][CO1]	[12M]
8		With example, mention the types of impacts that occur in a Road Development Project?	[L2][CO1]	[12M]
9		Discuss in detail about the impacts of various project activities on human aspects.	[L2][CO1]	[12M]
10	a	What are the factors to be considered for taking decisions based on assessment of significance of an impact?	[L1][CO1]	[6M]
	b	What is the need for EIA in India?	[L1][CO1]	[4M]

UNIT –II
EIA METHODOLOGIES

1	a	Make a note on various types of EIA Methods.	[L1][CO2]	[6M]
	b	List out the qualities and characteristics for the evaluation of impacts in EIA methodology.	[L1][CO2]	[6M]
2		Discuss in detail about the criteria for the selection of EIA methodology.	[L2][CO2]	[12M]
3		Explain about Ad-hoc method of EIA analysis	[L2][CO2]	[12M]
4		Write in detail about the salient features of matrices methods.	[L1][CO2]	[12M]
5	a	Write short notes on matrix method.	[L1][CO2]	[6M]
	b	Make a note on impact interpretation and evaluation.	[L2][CO2]	[6M]
6		Discuss the importance of network methods in the assessment of impacts.	[L2][CO2]	[12M]
7		Write about environmental medium quality index method for carrying out EIA.	[L1][CO2]	[12M]
8		Brief the four categories of checklist methodology in EIA?	[L1][CO2]	[12M]
9		What is the importance of overlay method in environmental impact assessment? Explain it.	[L2][CO2]	[12M]
10		Explain the cost/benefit analysis in EIA?	[L2][CO2]	[12M]

UNIT –III

IMPACT OF DEVELOPMENTAL ACTIVITIES AND LAND USE, EIA IN SURFACE WATER & PREDICTION AND ASSESSMENT OF IMPACTS ON THE AIR ENVIRONMENT

1	a	Draw a flow chart on systematic approach for the study of impacts on soil and groundwater.	[L3][CO3]	[6M]
	b	Write short notes on delineation of study area	[L1][CO3]	[6M]
2		Explain about the environmental impact on soil and groundwater for a road construction project?	[L2][CO3]	[12M]
3		Elaborate the Direct Land-use impacts on land due to the construction of a dam	[L3][CO3]	[12M]
4		What are the mitigation measures taken to prevent soil erosion and ground water pollution during and after execution of any developmental project?	[L1][CO3]	[12M]
5		Identify the various anticipated impacts of different land use changes with a schematic diagram.	[L2][CO3]	[12M]
6	a	List the conceptual approach to study surface water environment impacts.	[L1][CO4]	[6M]
	b	What are the physical and chemical characteristics of water? Brief it.	[L1][CO4]	[6M]
7		Make a note on important surface water contaminants and their impacts in a table format.	[L3][CO4]	[12M]
8	a	With flow chart, mention the area and point sources of air pollution	[L2][CO4]	[6M]
	b	List the WHO and CPCB standards on air quality.	[L1][CO4]	[6M]
9		Write a detailed note on generalized approach for assessment of air pollution impact.	[L1][CO4]	[12M]
10		List the six activity step model for EIA studies on air quality impact.	[L1][CO4]	[12M]

UNIT –IV
ASSESSMENT OF IMPACT ON VEGETATION AND WILDLIFE
&
PREDICTION AND ASSESSMENT OF IMPACTS OF NOISE ON THE ENVIRONMENT

1	With flow chart, explain about systematic approach for evaluating biological impacts.	[L3][CO5]	[12M]
2	Explain about the regulatory mitigation measures for the mitigation of biological impacts?	[L2][CO5]	[12M]
3	Discuss the important aspects of assessment of impacts of any developmental activities on vegetation and wild life.	[L2][CO5]	[12M]
4	a Make a note on direct loss of wild life.	[L2][CO5]	[6M]
	b Write three measures to protect wildlife.	[L1][CO5]	[6M]
5	Give and explain the main causes for depletion of natural vegetation or biodiversity in India.	[L2][CO5]	[12M]
6	Mention the noise zone classification in a table format	[L1][CO5]	[12M]
7	a Define noise, equivalent sound level and SENEL.	[L1][CO5]	[7M]
	b Write short notes on basic information on noise.	[L2][CO5]	[5M]
8	Explain in detail about the effects of noise on people.	[L2][CO5]	[12M]
9	a Make a note on noise measurement.	[L2][CO5]	[6M]
	b With a table format, mention the OSHA noise exposure limits for the work environment.	[L2][CO5]	[6M]
10	With flow chart, write the seven main steps associated with noise environment impacts.	[L2][CO5]	[12M]

UNIT –V
ENVIRONMENTAL ACTS (PROTECTION AND PREVENTION) & EIA CASE STUDIES

1	Discuss about the Environment protection act and its functions.	[L2][CO6]	[12M]
2	Discuss about the Water pollution prevention & protection act and its functions.	[L2][CO6]	[12M]
3	Discuss about the Air pollution protection act and its functions.	[L2][CO6]	[12M]
4	Define the Wild life act and its implementations.	[L2][CO6]	[12M]
5	Write about the concept of ISO and ISO14001 in detail.	[L2][CO6]	[12M]
6	a Mention the various physical resources in EI of industrial development and explain any two.	[L1][CO6]	[6M]
	b Write short notes on ecological resources in EI of industrial development.	[L1][CO6]	[6M]
7	a Briefly explain about the factors to be considered in making assessment decisions?	[L2][CO6]	[6M]
	b What are the management requirements for the preparation of EIA for industrial projects?	[L1][CO6]	[6M]
8	a Prepare the environmental impact of land clearing project in upland forest giving priority to physical resources.	[L3][CO6]	[6M]
	b Write short notes on water act.	[L1][CO6]	[6M]
9	What are the general guidelines for preparation of TORs for EIA?	[L1][CO6]	[12M]
10	List out the various typical impact of dams and reservoirs on EIA.	[L1][CO6]	[12M]

Prepared by:
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