

Code No: **RT42012B R13**

Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2019 ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT (Civil Engineering)

(Civil Engineering)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B

		PART-A (22 Marks)	
1.	a)	What is EIA? Explain.	[4]
	b)	Enumerate the EIA methodologies and explain the factors to keep in mind in	
		selecting the methodology.	[3]
	c)	Discuss the mitigation measures for soil and groundwater impacts.	[3]
	d)	Explain the different steps of a proposed model for EIA study on air environment	
		with the help of a schematic diagram.	[4]
	e)	What are the key stages in performing Risk Management?	[4]
	f)	Describe the process of Audit protocol.	[4]
		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a)	Describe systematic approach for using EIA as a planning tool for major Project	
		activities in brief.	[8]
	b)	What are the basic concepts of EIA?	[8]
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3.	a)	Explain the different characteristics that the impact evaluation methods should	F01
	L	have.	[8]
	b)	Describe the elements of EIA.	[8]
4.	a)	Write a detailed note on identification of activities which will have different	
		types of impacts on soil and ground water Quantity and Quality.	[8]
	b)	Discuss about methodologies for identification of potential environmental	
		impacts of typical engineering projects.	[8]
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5.	a)	Describe the environmental effects on surface water.	[8]
	b)	Explain stepwise how do you predict and assess impacts in the Air environment.	[8]
6.	a)	Write about the concept of ISO and ISO14000 in detail.	[8]
	b)	Explain the Box-model approaches for prediction of various environmental	
		impacts for Engineering projects.	[8]
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7.	a)	Describe different sources of air pollution.	[8]
	b)	Explain the Mass balance approach for prediction of environmental impacts of	FO.3
		engineering projects.	[8]

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Set No. 2

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2019 ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT

(Automobile Engineering)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B

		PART-A (22 Marks)	
1.	a)	What are the objectives of Environmental Impact Assessment (EIA)?	[4]
	b)	Distinguish the scope of "Rapid EIA" and "Cumulative EIA".	[3]
	c)	Provide an example of an activity that can adversely impact the air environment	
		and suggest an appropriate mitigation action.	[3]
	d)	What are the limitations of using Check List methods in EIA?	[4]
	e)	What are the requirements regarding public hearing?	[4]
	f)	What is the purpose of post Environmental Audit?	[4]
		PART-B (3x16 = 48 Marks)	
2.	a)	Describe possible changes in the environment by various project activities.	[8]
	b)	Describe the preparation of Environmental Base map.	[8]
	0)	Describe the preparation of Environmental Base map.	[0]
3.	a)	Describe matrix method in detail	[8]
٥.	b)	Discuss objectives, merits and demerits of EIA.	[8]
	0)	Discuss objectives, more and demores of the	[0]
4.	a)	Write a detailed note on Direct land use impacts.	[8]
٠.	b)	What are the various environmental indicators and indices? Explain the	[O]
	0)	environmental indices for air quality description.	[8]
		environmental indices for all quanty description.	[o]
5.	a)	Explain various developmental activities which cause significant impact on	
٥.	a)	surface water resources.	[8]
	b)	Describe the mitigation measures for surface water environment impact.	[8]
	U)	Describe the intigation measures for surface water chynomical impact.	[O]
6.	a)	What do you mean by bio diversity? Explain the different components of	
0.	a)	Biological Diversity.	[8]
	b)	Explain the battle environmental evaluation system for assessment of impacts	[O]
	U)	with suitable examples.	[8]
		with suitable examples.	[o]
7.	a)	Write a detailed note on generalized approach for assessment of air pollution	
/.	a)		[8]
	b)	Impact. What is EMP? What are massures ampleyed for mitigation of adverse.	[o]
	b)	What is EMP? What are measures employed for mitigation of adverse	FQ1
		environment?	[8]



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Set No. 3

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2019 ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT (Automobile Engineering)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B

		PART-A (22 Marks)	
1.	a)	What is the practice in India for Quality Assurance of Environmental Impact	
		Assessment (EIA)?	[4]
	b)	How do EIA contribute to sustainable development?	[3]
	c)	What is the purpose of screening in EIA?	[3]
	d)	Describe the classification of developmental projects in India for the purpose of Environmental Clearance.	[4]
	e)	List the essential components of an Environmental Management Plan.	[4]
	f)	What are the objectives of Environmental Legislation?	[4]
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		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a)	Give a brief account on cost benefit analysis of EIA.	[8]
	b)	Discuss about the need of EIA for Engineering projects.	[8]
		co.	
3.	a)	List out different EIA methods and Explain Ad-hoc methods in detail.	[8]
	b)	Write about the application of remote sensing and GIS for EIA.	[8]
4.	a)	Discuss about environmental indices for water and air quality.	[8]
	b)	Explain the various steps in preparing of E1A report.	[8]
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5.	a)	Draw the schematic diagram for conceptual approach to the study focused on	F01
	b)	surface water Environment impacts.	[8]
	b)	Write a detailed note on 'compilation of water Quantity-Quality information.	[8]
6.	a)	Describe the systematic approach for evaluating biological impacts.	[8]
0.	b)	How do you estimate the impact of a given heavy industry on air, water and land	[0]
	U)	environment?	[8]
		en (nominent.	[O]
7.	a)	Explain Battle environmental Evaluation system. Discuss in detail the issues	
		involved for assessment of impact.	[8]
	b)	What is EMP? What are measures employed for mitigation of adverse	
		environment?	[8]



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Set No. 4

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(Automobile Engineering)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B

PART–A (22 Marks) What is the role of Stake holders in EIA preparation? [4] What is the Criteria for selection of EIA Methodology? [3] How GIS is useful for EIA? c) [3] d) Suggest the mitigation options for noise pollution. [4] What are the generic impacts of projects on flora and fauna? e) [4] What are the Post Audit Activities? f) [4] PART-B (3x16 = 48 Marks)2. a) What is EIA? Explain. [8] Discuss objectives, merits and demerits of EIA. [8] 3. a) Describe Environmental media Quality Index method in detail. [8] Describe the EIA methodologies. b) [8] 4. Discuss the mitigation measures for soil and groundwater impacts. [8] a) Explain the various steps in preparing of E1A report. [8] Write a detailed note on identification of surface water Quantity or Quality 5. a) impacts. [8] Explain the Box-model approaches for prediction of various environmental impacts for engineering projects. [8] Differentiate between deforestation and forest degradation. [8] 6. a) b) Explain the common causes of deforestation around the world. [8] Explain the different steps of a proposed model for EIA study on air environment 7. a) with the help of a schematic diagram. [8] b) Discuss evaluation of audit data and preparation of Audit report. [8]