Code No: **RT42012B**

Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2019 ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT (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) d)	Discuss the mitigation measures for soil and groundwater impacts. Explain the different steps of a proposed model for EIA study on air environment	[3]
	u)	with the help of a schematic diagram.	[4]
	e) f)	What are the key stages in performing Risk Management? Describe the process of Audit protocol.	[4] [4]
	1)	Describe the process of Audit protocol.	ניין
2.	۵)		
۷.	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]
3.	a)	Explain the different characteristics that the impact evaluation methods should	
	b)	have. Describe the elements of EIA.	[8] [8]
			L-J
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	F01
		impacts of typical engineering projects.	[8]
5.	a) b)	Describe the environmental effects on surface water. Explain stepwise how do you predict and assess impacts in the Air environment.	[8] [8]
	U)		
6.	a) b)	Write about the concept of ISO and ISO14000 in detail. Explain the Box-model approaches for prediction of various environmental	[8]
	0)	impacts for Engineering projects.	[8]
7.	a)	Describe different sources of air pollution.	[8]
	b)	Explain the Mass balance approach for prediction of environmental impacts of	[01
		engineering projects.	[8]

Code No: **RT42012B**

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]
	1)	What is the purpose of post Environmental reduct.	ניו
		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a)	Describe possible changes in the environment by various project activities.	[8]
	b)	Describe the preparation of Environmental Base map.	[8]
3.	a)	Describe matrix method in detail	[8]
	b)	Discuss objectives, merits and demerits of EIA.	[8]
4.	a)	Write a detailed note on Direct land use impacts.	[8]
	b)	What are the various environmental indicators and indices? Explain the	
		environmental indices for air quality description.	[8]
5.	a)	Explain various developmental activities which cause significant impact on	
		surface water resources.	[8]
	b)	Describe the mitigation measures for surface water environment impact.	[8]
6.	a)	What do you mean by bio diversity? Explain the different components of	
		Biological Diversity.	[8]
	b)	Explain the battle environmental evaluation system for assessment of impacts	
		with suitable examples.	[8]
7.	a)	Write a detailed note on generalized approach for assessment of air pollution	
		Impact.	[8]
	b)	What is EMP? What are measures employed for mitigation of adverse	
		environment?	[8]

Code No: **RT42012B**

Set No. 3

[8]

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]
		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a)	Give a brief account on cost benefit analysis of EIA.	[8]
	b)	Discuss about the need of EIA for Engineering projects.	[8]
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]
5.	a)	Draw the schematic diagram for conceptual approach to the study focused on 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]
	b)	How do you estimate the impact of a given heavy industry on air, water and land environment?	г о л
		CHVITOHIICHT:	[8]
7.	a)	Explain Battle environmental Evaluation system. Discuss in detail the issues	FO3
		involved for assessment of impact.	[8]

b) What is EMP? What are measures employed for mitigation of adverse

environment?

Code No: **RT42012B**

Set No. 4

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

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