	ADAMAS UNIVERSITY **END SEMESTER EXAMINATION** (Academic Session: 2020 – 21)		
Name of the Program:	M.Tech. (Environmental Engineering)	**Semester:**	II
Paper Title:	Environmental Impact Assessment	**Paper Code:**	ENV21013
Maximum Marks:	50	**Time Duration:**	3 Hrs
Total No. of Questions:	17	**Total No of Pages:**	02
(Any other information for the student may be mentioned here)	**1.** At top sheet, clearly mention Name, Univ. Roll No., Enrolment No., Paper Name & Code, Date of Exam. **2.** All parts of a Question should be answered consecutively. Each Answer should start from a fresh page. **3.** Assumptions made if any, should be stated clearly at the beginning of your answer.		

Group A **Answer All the Questions (5 x 1 = 5)**			
		Knowledge Level	
1	What was the purpose of Montreal Protocol?	**R**	**CO1**
2	In which year Environment (Protection) Act was enacted?	**R**	**CO2**
3	EIA is defined as	**U**	**CO3**
4	How many countries have legislation on EIA?	**U**	**CO3**
5	SIA stands for	**R**	**CO4**
Group B **Answer All the Questions (5 x 2 = 10)**			
6 a)	What is Convention on Biological Diversity?	**R**	**CO1**
(OR)			
6 b)	What are the benefits of Environmental policy?	**R**	**CO1**
7 a)	What is Environmental Clearance?	**R**	**CO2**
(OR)			
7 b)	Explain the procedure of sample collection in respect of Surface water.	**U**	**CO2**
8 a)	What are the permissible limits of SO_2 and NO_2 concentration in ambient air (both Annual and 24 hours time weighted average) for "Industrial, Residential, Rural and Other Area" as per NAAQS?	**R**	**CO2**
(OR)			
8 b)	What specific aspects does a good EIA report and review include?	**R, Ap**	**CO3**
9 a)	What is essential in an EIA?	**U**	**CO3**
(OR)			
9 b)	How bad is our environment?	**R**	**CO3**
10 a)	What is the importance of environmental impact assessment when a project is to be established in a given area?	**U**	**CO4**
(OR)			
10 b)	The methodology used to predict impacts depends on	**U**	**CO4**
Group C			

Answer All the Questions (7 x 5 = 35)			
11 a)	Illustrate about the functions of the Central Pollution Control Board at the National Level in India.	**U**	**CO1**
(OR)			
11 b)	Explain the responsibilities of the Ministry of Environment, Forest and Climate Change (MoEFCC).	**U**	**CO1**
12 a)	Summarize important provisions of Water (Prevention and Control of Pollution) Cess Act, 1977.	**U**	**CO2**
(OR)			
12 b)	Explain the major objectives of Public Liability Insurance Act, 1991.	**U**	**CO2**
13 a)	i) What is Bio-medical waste? ii) Explain the main objectives of Bio-medical Waste Management Rules, 2016.	**R, U**	**CO2**
(OR)			
13 b)	Explain briefly about some important provisions of Solid Waste Management Rules, 2016.	**U**	**CO2**
14 a)	Illustrate about the Manifest System used specifically for the transport of hazardous wastes.	**U**	**CO2**
(OR)			
14 b)	Nature is not dependent on us, but we are dependent on the nature. Justify the statement.	**U**	**CO3**
15 a)	**Read the following case and answer the questions:** A car washing and lubricating company has been operating for several years (more than 10 yr) in a terrain with the following characteristics: porous, filterable with a frantic level near to the surface (1.5 m depth). The company is located close by to an estuary branch which is quite useful for them since they discharge all the disposals and waste generated by this activity directly into the estuary. These disposals contain a high level of oils and greases. All the dumping from the car maintenance goes directly into the soil since there are not palettes or gutters. The lubricating company operates for 20hrs for seven days per week. The Municipality since the local people has complained has arranged the execution of an EIA and you are part of it. i) What type of professionals will be part of the consultancy group performing the EIA? What will be the minimum that you can propose? ii) Mention three environmental impacts of this activity.	**R, Ap**	**CO3**
(OR)			
15 b)	Which offices/agencies are involved for EIA commission? Name the expertise in EIA commission in a tabular chart.	**U**	**CO3**
16 a)	Write note on screening and scoping as elements of EIA.	**U, R**	**CO3**
(OR)			
16 b)	What are the key steps in developing an EMP?.	**U**	**CO4**
17 a)	Define Environmental Remediation. Describe the potential impacts arising out of your own project and remediation measures for that proposed industry.	**U**	**CO4**
(OR)			
17 b)	Why EMP is important? Write the schematic procedure for EIA approval.	**U, Ap**	**CO4**