Seat No.: Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-II • EXAMINATION - SUMMER - 2017

Subject Code: 2721801 Date: 26/05 Subject Name: Environmental Impact Assessment				
Time: 02:30 PM To 05:00 PM Total Marks				
Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.				
Q.1	(a)	Discuss rationale of the evolution of Strategic Environmental Assessment (SEA).	07	
	(b)		07	
Q.2	(a)	Discuss the issues to be considered in a typical Baseline Monitoring Program	07	
	(b)	List the categories of alternatives that need to be considered for a typical large scale green field manufacturing project, and explain any <i>two</i> with examples	07	
		OR		
	(b)	Discuss emerging basis for Environmental Management	07	
Q.3	(a)	For the following EIA case studies (any one), what improvements you would suggest in the chapter 'Description of the Environment' (4) Thermal power plant (4) Development of port. (5) Railway project (5) Drilling of Oil well (6) Cement industry	07	
	(b)	Describe the basic inputs required for modelling Air Quality and the outputs of a model	07	
0.1	(.)	OR	07	
Q.3	(a)	Explain why baseline data is collected for EIA of a project and the types of baseline data.	07	
	(b)	Discuss with examples basic philosophy of mitigation of environmental impacts	07	
Q.4	(a)	Describe impact of emissions on human beings or flora and fauna	07	
	(b)	Discuss environmental attributes: Noise and Vibration or odor \mathbf{OR}	07	
Q.4	(a)		07	
	(b)		07	

Q.5	(a)	Discuss important considerations for Social Impact Assessment	07
	(b)	Enlist the requirements of a good EIA methodology.	07
		OR	
Q.5	(a)	In the context of EIA, explain public participation, public consultation, and public hearing	07
	(b)	Explain the terms: Value function graphs, priority value, Cost Benefit ratio with examples.	07
