		Seat No.: Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
		M. E SEMESTER – II • EXAMINATION – SUMMER • 2014	
Subject code: 1721801 Date: 16-06-2014 Subject Name: Environmental Impact Assessment Time 22 20 Date: 1721801 Date: 16-06-2014		J	
		me: 02:30 pm - 05:00 pm Total Marks: 70	
	IIIs	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a)	Explain the concept of õStrategic Environmental Assessment (SEA)ö. Describe an application of SEA with example	07
	(b)	Explain the relationship between human activities and environmental impacts with the help of diagram and examples.	07
Q.2	(a)	Define the term õpublic participationö with reference to EIA studies and describe its objectives	07
	(b)	What will be included in baseline data collection for conducting Ecological Impacts Assessment for a proposed new national highway project?	07
		OR	
	(b)	Explain the role of EIA in sustainable development.	07
Q.3	(a)	A 100 KLD distillery is proposed at a location 1 km away from a river which has seasonal flow. Discuss the aspects to be covered while predicting surface Water Impact Assessment.	07
	(b)	Discuss the aspects to be included in Social and Economic Impact Assessment for a proposed integrated steel plant requiring 1000 hectare land that includes some villages and agricultural fields. OR	07
Q.3	(a)	For a grass-root 1000 MW coal-based thermal power plant proposed at a distance of 2 km from an industrial estate, discuss (i) the basic objective of conducting Air Impact Assessment, and (ii) characterization of the pollutants released.	07
	(b)	What do you understand by õEnvironmental Management Plan (EMP)ö? Describe contents of a good EMP	07
Q.4	(a) (b)	Discuss :environmental impactsøcharacterization with examples What do you understand by environmental carrying capacity based developmental planning?	07 07
		OR	
Q.4 Q.4	(a) (b)	Discuss your suggestions for improving quality of some EIA reports studied by you Compare and contrast between EIA notification 1994 and EIA notification 2006.	07 07
Q.5	(a)	A large scale multipurpose project is to be constructed across a perennial river. Enlist the probable environmental impacts and classify them.	07
	(b)	Explain in detail the development and use of value function graphs for evaluation of impacts. Prepare value function graphs for pH and TDS. OR	07
Q.5	(a) (b)	Explain EIA as a four step activity. Highlight the significance of each activity. Prepare a list of short term and long term impacts of construction of Sewage Treatment	07 07

Plant. Suggest remedial measures for the impacts.