Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – II • EXAMINATION – WINTER • 2014

Subject code: 1721801 **Date: 02-12-2014**

Subject Name: Environmental Impact Assessment

Time: 02:30 pm - 05:00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Write down the procedure to be followed for obtaining environmental clearance as per EIA Notification 2006.	**07**
	(b)	Highlight EIA as a four step activity.	**07**
Q.2	**(a)**	Explain clearly the difference between primary, secondary and tertiary impacts giving examples.	**07**
	(b)	With the help of diagram, explain the relationship between human activities and environmental impact.	**07**
		OR	
	(b)	Write a short note on óSustainable Development.ò	**07**
Q.3	**(a)**	Write a note on the Detailed contents of EIA.	**07**
	(b)	What ware value function graphs? Explain the procedure to prepare value function graphs and highlight its use.	**07**
		OR	
Q.3	**(a)**	Define Environmental Attributes. Explain any one environmental attribute to describe water component of EIA.	**07**
	(b)	Enlist the EIA Methodologies and explain any one in detail.	**07**
Q.4	**(a)**	Enlist and explain the steps for carrying out Water Impact Assessment studies.	**07**
	(b)	Define the following with the help of an example: (i) Quantifiable and non quantifiable impacts. (ii) Acceptable and non acceptable impacts	**07**
		OR	
Q.4	**(a)**	What type of information/data is required to describe the baseline environmental conditions? What is the significance of baseline data?	**07**
	(b)	Discuss the advantages and disadvantages of public participation in the Environmental Clearance process for any project.	**07**
Q.5	**(a)**	Prepare an impact identification matrix for a Thermal Power plant .	**07**
	(b)	Define óSustainable Developmentô and enlist the methods to achieve sustainable development. Elaborate any one method to achieve Sustainable Development	**07**
		OR	
Q.5	**(a)**	Identify the likely impacts for construction of a dam across a perennial river and give their classification.	**07**
	(b)	Discuss methodology for predicting impacts of an untreated municipal wastewater stream proposed to be discharged into a river.	**07**

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