Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–IV(New) EXAMINATION – SUMMER 2016

Subject Code:2141308 **Date:08/06/2016**

Subject Name:Environmental Resources

Time:10:30 AM to 01:00 PM **Total Marks: 70**

Instructions:

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

			MARKS
Q.1		**Short Questions**	**14**
	1	Define the term desertification.	
	2	What is Geothermal Energy?	
	3	Define exponential growth.	
	4	What do you mean by CDM?	
	5	What is Conventional Fossil fuels?	
	6	Tell about Population dynamics.	
	7	Enlist the unique characteristics of water.	
	8	Define the term Deforestation.	
	9	Explain the term Exponential Reserve Index.	
	10	What is the Role of CO_2 **?**	
	11	Explain the term Static Reserve index.	
	12	Enlist the Sources of food.	
	13	What do you mean by Rain water harvesting?	
	14	What do you mean by Demographic projections?	
Q.2	**(a)**	Recall the Polluter Pays Principle.	**03**
	(b)	Write a short note on reasons for extinction of wild life.	**04**
	(c)	Give a brief note on availability of world energy resources.	**07**
		OR	
	(c)	Give a detailed classification of renewable and non renewable sources of energy with examples.	**07**
Q.3	**(a)**	Explain role of CDM in environmental issues.	**03**
	(b)	Write a short note on Carbon Footprint.	**04**
	(c)	Define Biotechnology and briefly explain the role of Biotechnology with reference to Biodiversity conservation.	**07**
		OR	
Q.3	**(a)**	Express the Importance of biodiversity.	**03**
	(b)	Enlist the parameters for Standards of Living and Quality of life.	**04**
	(c)	What are the purposes, components and advantages of social forestry?	**07**
Q.4	**(a)**	Explain the role of shifting cultivation in deforestation.	**03**
	(b)	What is Hydropower energy? Enlist advantages and disadvantages of hydropower.	**04**
	(c)	Enlist different methods of Population Forecasting and explain all in detail.	**07**
		OR	
Q.4	**(a)**	Define exponential growth with its application & properties.	**03**
	(b)	Enlist national and international environmental movements	**04**

	(c)	Classify the forest and briefly explain the each type of forest.	**07**
Q.5	**(a)**	Discuss the concept of doubling time with its applications.	**03**
	(b)	Explain the potential reserves in detail.	**04**
	(c)	Discuss the detail about Demographic transition Theory.	**07**
		OR	
Q.5	**(a)**	How do active and passive solar water heaters work?	**03**
	(b)	Write a note on forest harvest and management.	**04**
	(c)	Enlist and explain merits and demerits of pesticides for protection of crop and food.	**07**

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