

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) - EXAMINATION – SUMMER 2018

Subject Code:2163507

Date:01/05/2018

Subject Name:Environmental Management-II

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	Define the followings:	14
	1 Georeference	
	2 Geoinformation	
	3 Geographic objects	
	4 GIS	
	5 Spatial Data	
	6 Map	
	7 vulnerability	
	8 Raster data	
	9 GPS	
	10 Non Spatial Data	
	11 Adaptation	
	12 Green Belt	
	13 Coordinate	
	14 Polygon	
Q.2	(a) What is biodiversity and explain types of biodiversity?	03
	(b) Enlist advantages and disadvantages of AERMOD.	04
	(c) What are the merits and demerits of input out base LCA and process base LCA	07
	OR	
	(c) Explain Lifecycle process diagram and explain code of good conduct for Life Cycle Assessment	07
	Enlist use of GIS in EIA	
Q.3	(a) Explain the advantage & Disadvantages of MIKE21	03
	(b) Explain spatial data modelling in detail?	04
	(c) Describe Levels and Scales of Measurement in GIS?	07
	OR	
Q.3	(a) What are the objectives of DHWANI for noise pollution modelling?	03
	(b) Explain GIS data management?	04
	(c) Explain the categories of Biomedical waste in detail?	07
	Describe radioactive waste management?	
Q.4	(a) Explain the features of DHWANI	03
	(b) Explain the advantage of Green Belt Development?	04
	(c) What is carbon sequestration? What are the methods available for carbon sequestration?	07

- Q.4** (a) Give the classification of nuclear waste? **03**
(b) Give specification of Green Belt in industry? **04**
(c) Describe the characteristics of Hazardous waste in detail? **07**

- Q.5** (a) Explain Carbon Credit with example? **03**
(b) What is Bio-augmentation? Explain in detail. **04**
(c) Write a short note on Co-processing **07**

OR

- Q.5** (a) Explain Carbon Footprint with example? **03**
(b) Describe Energy recovery process? **04**
(c) Why water harvesting is very important? Explain with context to India. **07**

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