

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-IV (NEW) EXAMINATION – WINTER 2018****Subject Code:2141308****Date:12/12/2018****Subject Name:Environmental Resources****Time: 02:30 PM TO 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) Define following terms: **03**  
i. Gross National Product ii. Population Explosion  
iii. Deforestation.
- (b) Enlist the unique characteristics of water and explain any three with example. **04**
- (c) Enlist and explain merits & demerits of pesticides for protection of crop and food. **07**
- Q.2** (a) Justify the statement “Sun as main energy source”. **03**  
(b) Differentiate between ‘Reuse’ and ‘Recycle’ of water with examples. **04**  
(c) Classify the forest and briefly explain the each type of forest. **07**
- OR**
- (c) Define and explain consumptive & non consumptive uses of water. **07**
- Q.3** (a) What is deforestation? Discuss the effect of deforestation. **03**  
(b) Define malnourishment and undernourishment. **04**  
(c) What is hydropower energy? Write its advantages and disadvantages. **07**
- OR**
- Q.3** (a) Write a short note on carbon footprint. **03**  
(b) Define ‘Ethics’ and relate its application to environment. **04**  
(c) Explain Malthusian theory of maximum population with the help of neat sketch. **07**
- Q.4** (a) Justify the statement “Polluter pay principle”. **03**  
(b) What are the causes of desertification? **04**  
(c) Write a short note on “Ex-situ Biodiversity conservation”. **07**
- OR**
- Q.4** (a) Highlight the role of CO<sub>2</sub> in global warming. **03**  
(b) Differentiate between renewable and non-renewable energy resources. **04**  
(c) Define Biotechnology and briefly explain the role of Biotechnology with reference to biodiversity conservation. **07**
- Q.5** (a) Enlist national & international environmental movements. **03**  
(b) Differentiate between climate change & global warming. **04**  
(c) What are the purposes, components & advantages of social forestry? **07**
- OR**
- Q.5** (a) Explain role of CDM in environmental issues. **03**  
(b) Enlist the parameters for standards of living and quality of life. **04**  
(c) ‘Population is the route causes of pollution’, Justify the statement. **07**

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