

GUJARAT TECHNOLOGICAL UNIVERSITY**B. E. Sem. - V - Examination – June- 2011****Subject code: 151304****Subject Name: Environmental Resources****Date: 27/06/2011****Time: 10:30 am – 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.

- Q.1** (a) Explain various uses of water as resource. **07**
 (b) Define natural resource. Also classify and explain natural resources in detail. **07**

- Q.2** (a) Explain “The Optimum Population Theory” with the help of neat diagram. **07**
 (b) Enlist and explain merits and demerits of pesticides for protection of crop and food. **07**

OR

- (b) The decennial (ten years) census records for two cities are given below. Enlist the 2010 population for each city by appropriate method. **07**

Year	Population	
	City A	City B
1970	20,000	20,000
1980	60,000	26,000
1990	1,00,000	33,800
2000	1,40,000	43,940
2010	?	?

- Q.3** (a) Write short note on “Ex-situ Biodiversity conservation”. **07**
 (b) Define Deforestation and briefly explain problems created by deforestation. **07**

OR

- Q.3** (a) Enlist different methods of Population Forecasting and explain any one in detail. **07**
 (b) Define “Ethics” and relate its application to environment. **07**

- Q.4** (a) What is Hydropower energy? Write its advantages and disadvantages. **07**
 (b) Identify sources of food and explain each in detail. **07**

OR

- Q.4** (a) Explain with the help of explanatory sketch and establish its relation to global warming and its effects. **07**
 (b) Enlist ecological and economical services provided by forest. **07**

- Q.5** (a) Justify the statement “Sun as main energy source”. **07**
 (b) Highlight role of CO₂ in global warming and enlist other important green house gases. **07**

OR

- Q.5** (a) Define Biotechnology and briefly explain the role of Biotechnology with reference to Biodiversity conservation. **07**
 (b) Explain why Ozone layer is considered as protective layer. Also explain the ozone hole in terms of ozone concentration and its effects on earth. **07**
