

Enrolment No./Seat No_____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV EXAMINATION – SUMMER 2025

Subject Code:3141308

Date:08-05-2025

Subject Name:Environmental Resource management

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.
4. Simple and non-programmable scientific calculators are allowed.

MARKS

- Q.1** (a) Define following terms 03
1. Natural Resources
 2. Tangible and Intangible resources.
 3. Biotic and Abiotic Resources.
- (b) What do you mean by “Exhaustible Resources”? 04
- (c) Describe the classification of natural resources in detail. 07
- Q.2** (a) Write Functions of a water as a resource. 03
- (b) Identify the properties of water that make it a one-of-a-kind (Unique) resource. 04
- (c) Write a brief note on India's water resources. 07
- OR**
- (c) Define and explain water's consumptive and non-consumptive uses. 07
- Q.3** (a) Define renewable and non-renewable energy sources. 03
- (b) Explain "Sun as the main source of energy." 04
- (c) Write down the benefits and drawbacks of solar energy. 07
- OR**
- Q.3** (a) What is energy? Define distinct energy forms. 03
- (b) Write a short note on: Natural Gas 04
- (c) Define and classify Stock limited resources Vs Flow Limited resources. 07
- Q.4** (a) What is the significance of fossil fuels? 03
- (b) Write advantages and disadvantages of wave power. 04
- (c) Write a note on Energy scenario of India. 07
- OR**
- Q.4** (a) What is forest? what is a forest land? 03
- (b) What factors are responsible for tropical deforestation? 04
- (c) Enlist, with example the three important functions offered by forests to humans. 07
- Q.5** (a) Enlist sources of food. 03
- (b) Give your view on food supply and demand scenario of India. 04
- (c) Differentiate between the Green house effect, global warming and Climate change. 07
- OR**
- Q.5** (a) Define: 1) Population dynamics 2) Doubling Time 3) Migration rate. 03
- (b) What are the remedial measures of population explosion. 04
- (c) Write Environmental effects of ozone layer depletion. 07
