

Rani Rashmoni Green University
Environmental Science
Semester I
COURSE CODE GEST-13
End Term Examination 2024

Full Marks: 40

Time: 02hr.

Answer at least three (3) questions from each unit and two (2) from any unit of your choice.

All the questions carry equal marks (5)

Unit 1

(Natural Resource Management and Environmental (Green) Movements)

1. What is resource? Differentiate potential and actual resource with examples. Mention the causes of resource depletion.
1+2+2=5
2. Name at least four different examples of solar thermal conversion. Briefly describe the working principle of any one of them.
2+3=5
3. What is nuclear fusion? Compare nuclear fission and fusion as energy sources in terms of renewability, affordability, raw materials, and environmental impact.
1+4=5
4. State three conditions a place must fulfill to establish a wind park. Write any two disadvantages of wind energy harvesting.
3+2=5
5. What is meant by rainwater harvesting? Write the methods used for rainwater harvesting and state their benefits.
1+2+2 = 5
6. Write short notes on any two
2.5+2.5=5
 - a) Pitch control
 - b) Silent Valley movement
 - c) Bio diesel
 - d) Land subsidence

Unit 2

(Land-Use, Resource Mapping and Climatology)

1. What are green water and blue water? Classify groundwater on the basis of mode of origin.
2+3 = 5
2. What is meant by safe yield and overdraft of groundwater? What are the effects of groundwater discharge?
2+3 = 5

3. What is meant by hard and soft rocks? Briefly discuss different geological formations for storing and transmitting water.

1+4 = 5

4. What is the chemical composition of petroleum? Give an account of oil reserves of India.

2+3=5

5. Write the process of cloud formation in the atmosphere. Mention the different types of clouds.

3+2=5

6. Write short notes on any two

2.5+2.5=5

- a) Nuclear minerals
- b) Causes of land degradation
- c) Aims of integrated watershed management programme
- d) El-Nino and ENSO