

**2024/TDC (CBCS)/EVEN/SEM/  
EESHCC-602T/152**

**TDC (CBCS) Even Semester Exam., 2024**

**ECOLOGY AND ENVIRONMENTAL SCIENCE**

**( 6th Semester )**

Course No. : EESHCC-602T

**( Natural Resource Management  
and Sustainability )**

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

**UNIT—I**

**1. Answer any two of the following questions :**

2×2=4

- (a) What is sustainable forestry? State its importance. 1+1=2
- (b) What are various uses of water? Cite two reasons for shortage of water. 1+1=2
- (c) Explain briefly the importance of water conservation. Citing two examples. 1+1=2

( 2 )

2. Answer any *one* of the following questions : 6

- (a) Write a note on ecological importance of forests. Explain the relevance of forest as a resource. 3+3=6
- (b) What is the importance of soil? Add a note on soil conservation strategies. 2+4=6

## UNIT—II

3. Answer any *two* of the following questions : 2×2=4

- (a) Discuss about different types of minerals and its importance.
- (b) Write the benefits of ocean minerals citing examples.
- (c) Discuss briefly the environmental effect of extracting the mineral resources.

4. Answer any *one* of the following questions : 6

- (a) Explain the process of rock cycle.
- (b) Explain how minerals are extracted by open pit mining.

( 3 )

## UNIT—III

5. Answer any *two* of the following questions : 2×2=4

- (a) What are non-renewable energy resources? Give two examples.
- (b) State environmental impacts of non-renewable energy use.
- (c) Explain different types of coal and their uses.

6. Answer any *one* of the following questions : 6

- (a) Explain how oil is characterized. Cite suitable examples.
- (b) What are natural gases? Mention their utility. 2+4=6

## UNIT—IV

7. Answer any *two* of the following questions : 2×2=4

- (a) Write the advantages of renewable energy usage.
- (b) Mention various sources of geothermal energy.
- (c) What is biodiesel? State its advantages. 1+1=2

( 4 )

8. Answer any *one* of the following questions : 6

- (a) Write a note on solar energy. Mention two home appliances where the solar power is used. 4+2=6
- (b) Describe the performance of Ocean Thermal Energy Conversion (OTEC). Write its advantages.

UNIT—V

9. Answer any *two* of the following questions : 2×2=4

- (a) Explain briefly the integrated resource management.
- (b) Give the concept of sustainability.
- (c) What is sustainable development?

10. Answer any *one* of the following questions : 6

- (a) Write a note on different approaches in resource management.
- (b) Explain various approaches of sustainable development to achieve any targeted goal.

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