

**2024/TDC (CBCS)/EVEN/SEM/
EESHCC-202T/144**

TDC (CBCS) Even Semester Exam., 2024

ECOLOGY AND ENVIRONMENTAL SCIENCE

(2nd Semester)

Course No. : EESHCC-202T

(Land and Soil Conservation and Management)

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 soil fertility?
- (b) What are the different constituents of soil?
- (c) What are micronutrients?

(2)

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

- (a) Describe the process of formation of soil.
- (b) What is soil texture? Explain the major textural classes of soil. 2+4=6

UNIT—II

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

- (a) What is meant by nutrient depletion?
- (b) Define soil pollution.
- (c) Name some toxic contaminants found in soil.

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

- (a) What is soil erosion? What are the different types of soil erosion? Mention the causes of soil erosion. 1+2+3=6
- (b) Discuss the effect of soil degradation on the environment.

UNIT—III

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

- (a) Define desertification.

(3)

(b) What is land evaluation?

(c) What are the different types of land resources?

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

- (a) Explain the different drivers of land degradation.
- (b) Discuss the different visual indicators of land degradation.

UNIT—IV

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

- (a) What are ecosystem services?
- (b) What is food insecurity?
- (c) Define nutrient cycling.

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

- (a) Explain the effects of soil degradation on farming communities.
- (b) Give a brief account on the economic valuation of land degradation in India.

(4)

UNIT—V

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

2×2=4

- (a) What is meant by sustainable land-use planning?
- (b) What is land tenure?
- (c) What is soil conservation?

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

6

- (a) Explain the role of databases and data analysis in land-use planning and management.
- (b) How can participatory land degradation assessment help in controlling land degradation?

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