

**2023/TDC(CBCS)/EVEN/SEM/
EESHCC-202T/197**

TDC (CBCS) Even Semester Exam., 2023

**ECOLOGY AND ENVIRONMENTAL SCIENCE
(Honours)**

(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*

SECTION—A

Write notes on any ten from the following : $2 \times 10 = 20$

- 1. Soil erosion**
- 2. Desertification**
- 3. Soil bulk density**
- 4. Weathering**
- 5. Mulching**
- 6. Cover crop**

(2)

7. Crop rotation
8. Soil acidification
9. Minimum tillage
10. Food insecurity
11. Biodiversity
12. Sustainable land management
13. Afforestation
14. Land use change
15. Soil conservation

SECTION—B

Answer any *five* questions from the following :

6×5=30

16. Describe the role of soil organic matter in soil health management. 6
17. Describe the impact of soil degradation on agricultural productivity. 6
18. Describe the impact of coal mining on the environment. 6
19. Describe the strategies for soil moisture management for higher yield. 6
20. What is land degradation? Add a note on the drivers of land degradation. 2+4=6

(3)

21. What is land salinization? How can soil salinization be managed? 2+4=6
22. What is natural farming? Describe the benefits of natural farming. 2+4=6
23. What are ecosystem services? How does soil degradation accelerate ecosystem dis-services? 2+4=6
24. What is land tenure? What are the benefits of land tenure system? 2+4=6
25. Describe the strategies for integrating land degradation assessment into sustainable land management. 6

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