

**2022/TDC(CBCS)/EVEN/SEM/
EESHCC-202T/099**

TDC (CBCS) Even Semester Exam., 2022

ECOLOGY AND ENVIRONMENTAL SCIENCE

(Honours)

(2nd Semester)

Course No. : EESHCC-202T

(Land and Soil Conservation Management)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

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

SECTION—A

Write on any *ten* of the following : 2×10=20

1. Soil health
2. Soil texture
3. Soil pH
4. Soil nutrient depletion
5. Soil pollution

WEEKLY TEST (2)

6. Soil moisture
7. Land salinization
8. Deforestation
9. Species extinction
10. Ecosystem services
11. Precision farming
12. Soil organic matter
13. Land-use planning
14. Land tenure
15. Zero tillage

SECTION—B

Answer any five questions : 6×5=30

16. Define soil. Describe the soil management strategies for restoration of depleted soil. 1+5=6
17. What is soil formation? Describe the chemical processes of soil formation. 1+5=6
18. What is cover cropping? Describe various management practices for conservation of soil moisture in agricultural land. 1+5=6

(3)

19. What is soil degradation? Describe the role of industrial and urban development on soil degradation. 1+5=6
20. What is desertification? Describe the important drivers of land degradation. 1+5=6
21. What is monoculture plantation? Describe the causes of loss of biodiversity. 1+5=6
22. How does land degradation impact on food security? 6
23. What are the onsite and offsite costs of land degradation? 6
24. Describe the methodology involved in participatory land degradation assessment. 6
25. Describe the mechanism of sustainable land-use planning. 6
