TDC Even Semester Exam., 2019

ECOLOGY AND ENVIRONMENTAL SCIENCE

(Honours)

(2nd Semester)

Course No. : EESH–202

(Land and Soil Conservation and Management)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

The figures in the margin indicate full marks for the questions

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. Define soil organic matter. Describe the role of soil organic matter in plant growth. 2+5=7

2. Write short notes on the following : 3½+3½=7

(a) Physical properties of soil

(b) Micronutrients of soil

UNIT—II

3. Define soil erosion. Describe the different types of soil erosion and its causes. 1+6=7

4. Write short notes on the following : 3½+3½=7

(a) Factors affecting wind erosion

(b) Role of mining in soil contamination

UNIT—III

5. Describe deforestation as a major driver of land degradation. 7

6. Explain the role of grazing as a biological phenomenon leading to desertification. 7

UNIT—IV

7. Describe the global factors that will influence soil degradation in the future. 7

8. Write short notes on the following : 3½+3½=7

(a) Loss of ecosystem services

(b) Effect of land degradation on food security

UNIT—V

9. Discuss the role of remote sensing and geographical information system in soil survey. 7

10. Write short notes on the following : 3½+3½=7

(a) Land tenure and land policy

(b) Sustainable land use planning

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