TDC (CBCS) Even Semester Exam., 2019

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 the difference between land degradation and soil degradation?

(b) What is the difference between soil organic matter and humas?

(c) How are land degradation and habitat fragmentation related?

2. What is land degradation? Describe the causes and effects of land degradation on soil health. 2+4=6

Or

What is soil organic matter? Describe the importance of soil organic matter in improving soil quality. 2+4=6

UNIT—II

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

(a) What is gully erosion?

(b) What is organic waste?

(c) Give examples of industrial and municipal waste.

4. Define soil erosion. What are the important drivers of soil erosion? Add a note on control measure of soil erosion. 1+2+3=6

Or

What is soil pollution? How do mining and mineral extraction cause soil pollution? 2+4=6

UNIT—III

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

(a) What is desertification?

(b) How does soil salinity affect the environment?

(c) Why is soil salinization harmful for ecosystem?

6. What are the human factors in land degradation? How does desertification accelerate the process of land degradation? 2+4=6

Or

What is land salinization? How does salinication affect soil? How doe you reduce salinity in soil? 2+2+2=6

UNIT—IV

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

(a) What are provisioning ecosystem services?

(b) What is land valuation?

(c) How does land degradation affect food productivity?

8. What are the techniques for economic valuation of land degradation? Add a note on onsite and offsite costs of land degradation. 2+4=6

Or

What are ecosystem services? How does land degradation cause loss of ecosystem services? 2+4=6

UNIT—V

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

(a) State the importance of land use planning.

(b) What are the principles of land use planning?

(c) Why is regional land use planning done?

10. What is land use planning? Why is it necessary to make a proper plan for land use? 2+4=6

Or

What is integrated land use planning? How can integrated land use planning combat land degradation? 2+4=6

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