

2020/TDC/ODD/SEM/EESP-301/252

(2)

TDC Odd Semester Exam., 2020
held in July, 2021

UNIT—II

ECOLOGY AND ENVIRONMENTAL SCIENCE

(Pass)

(3rd Semester)

Course No. : EESP-301

(Ecosystem Analysis)

Full Marks : 35
Pass Marks : 12

Time : 2 hours

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

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

UNIT—I

1. What are agro-ecosystems? Mention two merits and demerits of agro-ecosystems. Describe briefly biotic component of agro-ecosystem. 1+2+4=7
2. Define ecosystem. Write a note on grassland ecosystem. 2+5=7

10-21/548

(Turn Over)

3. Describe the various components of mangrove ecosystem. 7
4. What do you mean by lotic ecosystem? Describe briefly the essential components of a lotic ecosystem. 2+5=7

UNIT—III

5. Write short notes on the following : $3\frac{1}{2}+3\frac{1}{2}=7$
(a) Pyramids of biomass and energy
(b) Food chain and food web
6. Write a note on energy flow in ecosystem. 7

UNIT—IV

7. What do you mean by productivity in an ecosystem? Describe the methods of measuring productivity in an aquatic ecosystem. 1+6=7
8. Differentiate between primary productivity and secondary productivity. 7

10-21/548

(Continued)

(3)

UNIT—V

9. What is carbon cycle? Write a note on carbon cycle in nature. 2+5=7
10. What is nitrogen cycle? Write a note on nitrogen cycle in nature with special reference to symbiotic nitrogen fixation. 2+5=7

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