CENTRAL LIBRARY N.C.COLLEGE

2023/FYUG/ODD/SEM/ EESDSC-101T/042

FYUG Odd Semester Exam., 2023 (Held in 2024)

ECOLOGY AND ENVIRONMENTAL SCIENCE

(1st Semester)

Course No.: EESDSC-101T

(Ecology and Ecosystem)

Full Marks: 70
Pass Marks: 28

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION-A

Answer ten questions, selecting any two from each
Unit: 2×10=20

UNIT-I

- 1. What do you mean by ecology?
- 2. What is biosphere?
- 3. Define the term 'ecological niche'.

24J/480

(Turn Over)

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- 4. Define population.
- 5. What do you mean by natality?
- 6. What is K-selection?

Unit—III

- 7. What do you mean by keystone species?
- 8. What do you mean by edge effect?
- 9. What is climax community?

UNIT-IV

- 10. What is lotic ecosystem?
- 11. Define food web with suitable examples.
- 12. What is estuarine ecosystem?

UNIT-V

- 13. What is biotic accumulation?
- 14. Give the salient features of nutrient cycling.
- 15. Define hydrological cycle.

(Continued)

(3)

SECTION-B

Answer *five* questions, selecting *one* from each
Unit: 10×5=50

UNIT-I

- 16. Illustrate the Shelford's Law of Tolerance with diagram.
- 17. Give an account on major terrestrial biomes.

UNIT—II

- **18.** Describe in detail about the characteristics of population.
- 19. Discuss different types of population growth with examples.

UNIT-III

- 20. Discuss the general process of succession in nature.
- 21. Discuss the various theories of climax concept in succession.

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(4)

UNIT—IV

- **22.** Write a detailed account of the structure and functions of an ecosystem.
- 23. Give a detailed account of grassland and desert ecosystems.

UNIT-V

- 24. Explain nitrogen cycle with the help of a diagram.
- **25.** Write a detailed account of input of nutrients in ecosystem.
