

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2021

ZOOLOGY

FZOL2C05: ECOLOGY & ETHOLOGY

Time: 3 Hours

Maximum Weightage: 30

Part A: All questions can be answered. Each carries *two* weightage (Ceiling 6 weightage).

1. What is symbiosis? Mention the types with examples.
2. Explain life tables and survivorship curves.
3. Differentiate between fundamental and realized niche.
4. Explain community stratification.
5. Write an account on Western Ghats.
6. Distinguish between sign stimuli and supernormal stimuli.
7. Write a note on social behaviour of termites

Part B: All questions can be answered. Each carries *four* weightage (Ceiling 12 weightage).

8. Citing examples explain the differences between r- selection and k-selection.
9. Critically evaluate the proposal of interlinking of major rivers of India.
10. Write on the concept of green building technology and its ecological importance.
11. Write an account on inter-specific competition.
12. Briefly explain motivation studies on guppies.
13. Explain neural basis of sleep and arousal.
14. Explain reafference theory.

Part C: All questions can be answered. Each carries *six* weightage (Ceiling 12 weightage).

15. Write on the different methods of measurement of species diversity.
16. Elaborate on the various aspects of evolution and adaptiveness of behaviour.
17. Enumerate different energy flow models.
18. Write an essay on various aspects of ecological succession.