

QP CODE: 25005872



Reg No :
Name :

**UNDER GRADUATE (CBCS) SPECIAL REAPPEARANCE EXAMINATIONS,
FEBRUARY 2025**

Fifth Semester

(Offered by the Board of Studies in Microbiology)

OPEN COURSE - MB5OPT03 - ECOLOGY AND EVOLUTION

2022 Admission Only

0E4FD49F

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Standing state.
2. Aphotic zone.
3. Production functions.
4. Secondary consumers.
5. Circadian rhythm.
6. Fecundity.
7. Photoperiodism.
8. Hibernation.
9. Comment on parasitic food chain. Give an example.
10. Differentiate between pyramid of biomass and pyramid of energy.
11. Coacervates.
12. Natural selection.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Beneficial interactions.





14. Different types of biomes.
15. What is rhythm? Explain some common rhythms in nature.
16. Explain the phenomenon of aestivation.
17. Explain Pheromones, its types and functions.
18. Explain the major steps involved in the linking of grazing and detritus food. Give examples.
19. Elaborate phosphorous cycle using diagram.
20. Comment on theory of special creation and Cosmozoic theory.
21. Explain fossilization.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. What is biomes and explain in detail about terrestrial biomes?
23. Write in detail about the effect of light on organisms and their adaptation.
24. Explain in detail the biogeochemical cycles – Carbon, Nitrogen and Phosphorous cycles.
25. Explain evidence of evolution from comparative morphology and anatomy.

(2×15=30)

