

(Pages : 3)

K – 4932

Reg. No. :

Name :

Third Semester M.Sc. Degree Examination, February 2021.

Zoology

ZO 232 : ECOLOGY, ETHOLOGY AND BIODIVERSITY CONSERVATION.

(Common for 2013 and 2019 scheme)

Time : 3 Hours

Max. Marks : 75

- I. Write brief notes on **any ten** of the following, each in a paragraph. Each question carries **2** marks.
1. Biotic potential.
 2. Alpha diversity.
 3. Ecotone.
 4. Earth summit.
 5. Food web.
 6. Commensalism.
 7. Imprinting.
 8. Pheromones.
 9. Biological clock.
 10. Territory.

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11. Species diversity.
12. Hotspot.
13. Niche.
14. Keystone species.
15. Ecological equivalents.

(10 × 2 = 20 Marks)

II. Answer **any six** of the following, each not exceeding a page. Each question carries **4** marks.

16. Explain Kyoto protocol.
17. What are the causes of biodiversity loss?
18. Major biodiversity zones of India.
19. Explain energy in ecosystem.
20. Explain classical conditioning.
21. Explain Gause's principle with example.
22. Explain Co evolution with examples.
23. Ramsar convention and Ramsar sites of India and Kerala.
24. Explain sedimentary cycle with phosphorous cycle as example.
25. Explain Pyramid of energy.

(6 × 4 = 24 Marks)



III. Write short essay not exceeding **two** pages on **any three** of the following. Each question carries **7** marks.

- 26. Explain Succession with examples.
- 27. Explain Project tiger.
- 28. Explain migration with examples.
- 29. Explain the concept of ecosystem.
- 30. Fresh water ecosystem.

(3 × 7 = 21 Marks)

IV. Write an essay on **any one** of the following, not exceeding **four** pages. the question carries **10** marks.

- 31. Explain species interaction with examples.
- 32. Explain Population dynamics.

(1 × 10 = 10 Marks)

