

2020

**Gurudas College**

**ZOOLOGY – HONOURS**

**(1+1+1 Regulations)**

**PAPER 3 (UNIT II)**

**Full Marks: 50**

**Time: 2 hrs.**

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable*

Answer **any twenty five** questions from the following:

2x25

1. What are El Nino and La Nina?
2. What is Key-stone Species? Give example.
3. What is Circadian Rhythm? Give example.
4. Explain Hibernation and Aestivation with examples.
5. Explain – “Pyramid of Energy cannot be inverted”.
6. What is Net Primary Productivity?
7. What is Lindeman’s Trophic-Dynamic Concept?
8. Explain Expanding Type Population with diagram.
9. Briefly explain the Population Dispersion with diagrams.
10. What are Major Community and Minor Community?
11. Explain Edge Effect and Ecotone.
12. Briefly describe the Phanerophytes and Hemicryptophytes.
13. Explain Ecotypes.
14. Define Relative Frequency and Abundance.
15. What is Ecological Niche? Name its types.
16. Describe Resource Partitioning with example.
17. Differentiate between Autotrophic Succession and Heterotrophic Succession.
18. What are Autogenic Succession and Allogenic Succession?
19. Define Gamma biodiversity with example.
20. Mention two roles of biodiversity in human welfare.
21. What do you mean by megadiverse countries?
22. State two important criteria for biodiversity hotspot.
23. What are the reasons for wildlife depletion in Indian context?
24. What do you mean by IUCN categories?
25. State few important criteria to be a critically endangered species.
26. Distinguish between in-situ and ex-situ conservation.
27. Distinguish between core zone and buffer zone.
28. Define conservation corridor with suitable examples.
29. What do you mean by Man-animal conflict?
30. Write two major obstacles to the Project Tiger in conservation of tigers in India.
31. What is JFM? Write one merit of JFM.
32. Discuss the necessities of environmental audit.
33. Define EIA.
34. Mention two important roles of NGOs in wildlife conservation in India.
35. Distinguish between National Park and Biosphere Reserve with examples.