

**Zoology (P.G.)**  
**[CBCS]**

**M.Sc. Second Semester End Examination-2024**  
**(Regular & Supplementary Paper)**  
**PAPER- ZOO-204**

*Full Marks: 40*

*Time: 02 Hrs*

*The figures in the right hand margin indicate marks*

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

*Illustrate the answers wherever necessary*

*(Use separate answer script in each group)*

**Group A**  
**Marks 20**  
**(Wildlife & Eco-Management)**

1. Answer any two questions of the following: 2x2= 4
    - a. What is biodiversity hotspot? Give an example. 1+1
    - b. What is acid rain?
    - c. Mention the significance of wild life protection act 1972.
    - d. Write down the difference between primary pollutant and secondary pollutant.
  
  2. Answer any two questions of the following: 2x4= 8
    - a. State the causes of global warming.
    - b. Write down the difference among National park, Sanctuary and biosphere reserve.
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(2)

- c. Write short note on Ecotone. 4
- d. Mention any four assumption of capture and recapture method.

3. Answer any one question of the following: 1x8=8

- a. What is the full form of IUCN? Mention the names of threatened category of IUCN. Write down the root causes of depletion of wildlife health. 1+2+5
- b. i) What is "Lincoln-Petersen Index"?
- ii) Suppose in an experiment number of rabbit trapped is 39(M=39) number of tagged rabbit recaptured is 15(R=15), number of recaptured animals that are untagged is 19. Estimate the total population.
- iii) What do you mean by mega diversity country? 2+4+2

**Group B**  
**Marks 20**  
**(Aquaculture)**

4. Answer any two questions of the following: 2x2= 4

- a. Define aquaculture. Differentiate it from fishery
- b. Name the exotic fish species cultured in India with IMC.
- c. What is mariculture? Name a species used in mariculture.
- d. What is pen culture system? Estimate the species culture in this system.

(3)

5. Answer any two questions of the following: 2x4= 8

- a. State the impact of climate change on fisheries.
- b. Write a brief note on preparation of graft tissue in pearl culture.
- c. Describe the water and soil feature of a good fish pond.
- d. What do you mean by enclosures fish culture? Write its disadvantages.

6. Answer any one question of the following: 1x8=8

- a. Describe the larval development of tiger shrimps with suitable figures.
- b. Write a brief note on best practices for sustainable aquaculture.