



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Honours 1st Semester Examination, 2022

**CC2-ZOOLOGY**  
**ECOLOGY**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

1. Answer any **five** questions from the following: 1×5 = 5
- (a) What is 'cohort'?
  - (b) What are eurythermal organisms?
  - (c) What is autecology?
  - (d) The area over which an animal moves in search of food is called \_\_\_\_\_ . (Fill in)
  - (e) What is fecundity?
  - (f) \_\_\_\_\_ percent of energy is lost in transferring food energy from one trophic level to another. (Fill in)
  - (g) Name the world's oldest national park.
  - (h) What is hypervolume niche?
2. Answer any **three** questions from the following: 5×3 = 15
- (a) Write a short note on ecotone and edge effect.
  - (b) Write a note on impact of light on animals.
  - (c) Define natality. Distinguish between physiological natality and realized natality. 2+3
  - (d) What is the importance of nitrogen to organisms? What is denitrification? 3+2
  - (e) Write differences between 'r-selection' and 'k-selection'.
3. Answer any **two** from the following: 10×2 = 20
- (a) Define competition. Write a brief note on intraspecific competition with suitable examples. Elucidate Gause's principle with suitable field examples. 2+4+4
  - (b) Describe three general types of survivorship curves with examples. Write a short note on means of dispersal. Add a note on the effect of dispersal on population. 4+4+2
  - (c) What is succession? Distinguish primary and secondary succession. Describe monoclinal and polyclinal theory. 2+4+4
  - (d) Differentiate in-situ and ex-situ conservations. Give an account of strategies followed in in-situ conservation. Add a note on 'Wildlife Protection Act (1972)'. What is 'Flagship species'? 2+4+3+1

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