

PGD WILDLIFE BIOLOGY Semester - 1 Examination**December-2024****Diversity and distribution of living forms in India (LEVEL 1)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. Figures to the right indicate marks.

Section A Give Short Answer of the following Questions (3 Marks Each) [15]

1. Define the term Endangered species.
2. Give the characteristics of invasive species.
3. What is keystone species?
4. Explain human wildlife interactions.
5. What are biodiversity hotspots? List the biodiversity hotspots found in India.

Section B Give Medium Answer of the following Questions (5 Marks Each) [25]

6. (a) Give the difference between national parks and wildlife sanctuaries.

OR

- (b) Describe the biogeographic zones of India and explain their importance in biodiversity conservation.
7. (a) What is species dispersal? Explain the different types of dispersal.

OR

- (b) What are the characteristics of species coexistence?
8. (a) Discuss in detail the concept of ecotone and edge effect.

OR

- (b) Give the detail of umbrella species and flagship species with example.
9. (a) What are the social research methods for human wildlife interaction?

OR

- (b) Discuss the patterns of HWI conflict and the role of local stakeholders in mitigating these conflicts.
10. (a) What is species interaction? Explain any three types of species interactions.

OR

- (b) Explain any two association between plants and animal and their adaptation.

Section C Answer the following Questions (10 Marks Each, Attempt Any 3) [30]

11. Explain the major forest types and their classification in India.
12. Differentiate between r-selected and K-selected species in terms of their life history traits, reproductive strategies, and survival patterns.
13. What is speciation? Discuss the different types of speciation.
14. Discuss the history, current situation, and scope of Human-Wildlife Interaction (HWI).
15. Explain the type and process of ecological succession.
