

Post Graduate Teaching Department of Zoology
An Autonomous Department of
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
M. Sc. Zoology Semester -III (CBCS)
Theory Examination Winter-2022
Name of the Paper: 3T4: Wildlife and Avian Biology

Time: 3hrs

Maximum Marks: 60

Note: -

- 1. All the questions are compulsory.**
- 2. All questions carry equal marks.**
- 3. Draw well labelled diagrams and charts wherever necessary.**

Q.1 Explain in detail predatory-prey relationship and optimal foraging theory. **12**

OR

Write notes on: -

- (a) Conservation movements in India.
- (b) Social organization in primates.

Q.2 Give detail account on management and identification of animals by using different types of marking techniques. **12**

OR

Write notes on: -

- (a) Basic concept of forest dwelling Arthropods.
- (b) Decomposer food web in forest soil.

Q.3 Explain in detail morphology and morphometry of birds. **12**

OR

Write notes on: -

- (a) Bird study technique through various equipments.
- (b) Bird counting techniques.

Q.4 Give detail account on bird biodiversity hotspots and sanctuaries in India. **12**

OR

Write notes on: -

- (a) Role of birds in ecosystem.
- (b) Types of nest and nest building.

Q. 5 Write in brief on the followings: - **12**

- (a) Concept of conservation.
- (b) Dynamic marking techniques.
- (c) Bird diversity.
- (d) Nesting territories.