

M.Sc. (Zoology) Semester - 3 (CBCS) Examination
Oct/Nov-2022 (NEW COURSE)
Wildlife And Animal Behavior (Elective (New))

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

SECTION-I

- Q.1 Answer the following (Two short Questions)**
- A Explain: gene pool and isolating mechanisms. 7
- B Give an account on convergent evolution. 7
- OR**
- Q.1 Answer the following (One long Question)** 14
- Write an account on " concepts and rate of change in gene frequency through natural selection".
- Q.2 Answer the following (Two short Questions)**
- A Discuss instruments used in wildlife poaching in brief. 7
- B Give a detailed account on biosensors. 7
- OR**
- Q.2 Answer the following (One long Question)** 14
- Give a detailed account on national parks in Gujarat.
- Q.3 Do as direct (any seven out of eight questions)** 7
- 1 What is remote sensing?
 - 2 Add a note on horizontal gene transfer.
 - 3 Define " co-evolution ".
 - 4 Explain: hardy-weinberg law.
 - 5 Mention " allopatric speciation ".
 - 6 What is anthropogenic pressure?
 - 7 Write down examples of man-wildlife conflicts.
 - 8 Enlist the characteristics of Ramsar site.

SECTION-II

- Q.4 Answer the following (One long Question)** 14
- Describe in detail: mangrove systems.
- OR**
- Q.4 Answer the following (Two short Questions)**
- A Describe physico-chemical and biological factors of intertidal zone. 7
- B Write a note: adaptation of deep sea benthic organisms. 7
- Q.5 Answer the following (One long Question)** 14
- What is migration? Explain "migration in birds".
- OR**
- Q.5 Answer the following (Two short Questions)**
- A Explain in brief the role of circadian rhythm. 7
- B Give an account on reproductive success. 7
- Q.6 Do as direct (any seven out of eight questions)** 7
- 1 What is " instinct "?
 - 2 Give a definition of habitat.
 - 3 Distinguish between symbiosis and parasitism.
 - 4 Explain: Neritic Zone.
 - 5 Write down the importance of territoriality.
 - 6 Define imprinting.
 - 7 State the contribution of Charles Darwin.
 - 8 Enlist the characteristics of instincts.
