647510 **MSC3ZooE316A** **Seat No :_____**

M.Sc. (Zoology) Semester - 3 (*CBCS*) Examination
OCT/NOV-2024 (AS PER SYLLABUS YEAR JUNE-2019)
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.
3. Draw neat and labeled diagram wherever needed.

SECTION-1

Que. 1 Convergent evolution & sexual selection. **(14)**

OR

Que. 1 **Answer the Following.**

(A) Describe concepts and rate of change in gene frequency through natural selection, migration and random genetic drift. **(07)**

(B) Explain in detail marine wealth of India and remote observations. **(07)**

Que. 2 Describe biosphere reserves. **(14)**

OR

Que. 2 **Answer the Following.**

(A) Describe biosensors with examples. **(07)**

(B) Give details of wildlife protection act, projects and trades in wildlife. **(07)**

Que. 3 **Answer any seven out of eight.** **(07)**

(1) Explain sexual selection.
(2) List out reasons for loss of wild life.
(3) What is meant by conservation status?
(4) Write scientific name of a key species of Gir.
(5) What is Hardy-Weinberg law?
(6) Describe gene frequency.
(7) Describe ranging patterns.
(8) What is urban wildlife?

SECTION-2

Que. 4 Describe coral reef ecology. **(14)**

OR

Que. 4 **Answer the Following.**

(A) Explain Marine animal associations. **(07)**

(B) Write short note on special features of mangrove habitats & marine fauna. **(07)**

Que. 5 **Answer the Following.**

(A) Describe orientation and navigation; domestication and behavioral changes. **(07)**

(B) Explain reproductive and courtship behavior in details with examples. **(07)**

OR

Que. 5 Write about migration of Fish & bird. **(14)**

Que. 6 **Answer any seven out of eight.** **(07)**

(1) Why animal migrates?
(2) Describe catadromous migration in short.
(3) Adaptations of shallow water organisms.
(4) Describe social communication in apis.
(5) Write about intertidal zone in short.
(6) Explain Kin selection concept.
(7) Describe commensalisms.
(8) Write about mating systems.

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