

Progressive Education Society's Modern College of Arts, Science & Commerce Ganeshkhind, Pune 16 End Semester Examination: April/May 2024 Faculty: Science and Technology

Program: BScGen03 Semester: IV SET: B

Program (Specific): Zoology
Class: S.Y.B. Sc
Max. Marks: 35

Name of the Course: Animal Systematics and Diversity IV Credits:2 Course Code: 23-ZO-241 Time: 2Hrs

Paper: I

Instructions to the candidate:

- 1) There are 4 sections in the question paper. Write each section on separate page.
- 2) All Sections are compulsory.
- 3) Figures to the right indicate full marks.
- 4) Draw a well labelled diagram wherever necessary.

SECTION: A

Q.1 Define or Explain

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- a) Define viviparity.
- b) Explain the role of patagium.
- c) Define poikilotherms.
- d) Explain flightless birds.
- e) Define Class Aves with two examples.

Q.2 Attempt any four of the following

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- a) Describe any two habits of rat.
- b) Explain neurotoxic venom.
- c) State the function of blubber in whale.
- d) Define Diapsida.
- e) Explain plantigrade condition.
- f) State the function of brain in rat.

SECTION: B

Q.3 Write note on any four of the following

8

- a) What is heterodont dentition?
- b) Describe migratory birds with suitable examples.
- c) Distinguish between venomous and non venomous snakes.
- d) State the sexual dimorphism in rat.
- e) Give the systematic position of rat.
- f) Comment upon the environmental sex determination in reptiles.

SECTION: C

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- a) Give the systematic position of peacock.
- b) Describe marsupial mammals.
- c) Write a note on any four aquatic adaptations in mammals.
- d) Describe the anatomical flight adaptations in birds.
- e) State the functions of the respiratory system in rat.
- f) Describe the cursorial adaptations in mammals.

SECTION: D

Q.5 Attempt any two of the following.

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- a) Explain the Digestive system of rat with a suitable diagram.
- b) Describe the nesting pattern in birds.
- c) Describe the female reproductive system of rat with a suitable diagram.
- d) Comment upon the salient features of Class Mammalia.