



DAM-003-2014020 Seat No. _____

B. Sc. (Sem.-IV) (CBCS) (W.E.F. 2019) Examination

April - 2022

Zoology : Z-04

(New Course)

Faculty Code : 003

Subject Code : 2014020

Time : $2\frac{1}{2}$ Hours]

[Total Marks :70

- Instructions :** (1) Illustrate your answers with neat and labeled diagrams.
(2) Figures to the right side indicate full marks of question.

- 1 (A) Answer the following questions : 4
- (1) Give the example of class Cyclostomata.
 - (2) Give the example of class of Ascidea.
 - (3) How many pair of external gills are present in Axolotal larve ?
 - (4) Give the name of class of calotes.
- (B) Answer the following questions : (any one) 2
- (1) General character of Amphibia.
 - (2) Classify the animal - Loris, reasons are not necessary.
- (C) Answer the following questions : (any one) 3
- (1) Classify the animal Testudo, with reasons.
 - (2) Write salient feature of class Aves.
- (D) Answer the following questions : (any one) 5
- (1) Write Classification chart of chordata.
 - (2) Explain external features of class Reptiles and Mammals.

- 2 (A) Answer the following questions : 4
- (1) Give the scientific name of Calotes.
 - (2) The length of King cobra snake is about _____.
 - (3) How many auricles and ventricles are present in Calotes heart ?
 - (4) What is Fangs of snake ?
- (B) Answer the following questions : (any one) 2
- (1) Describe Cobra snake.
 - (2) Describe Python snake.
- (C) Answer the following questions : (any one) 3
- (1) Draw only labeled figure : Male Reproductive system of Calotes.
 - (2) Snake biting mechanism.
- (D) Answer the following questions : (any one) 5
- (1) Draw only labeled figure of Calotes Digestive system.
 - (2) Explain Identification of poisonous and non poisonous snake with chart.
- 3 (A) Answer the following questions : 4
- (1) What is the Function of ADH ?
 - (2) Which hormone is produced by Thyroid gland ?
 - (3) Urea producing animals are call as...
 - (4) Write any three excretory product names.
- (B) Answer the following questions : (any one) 2
- (1) Write Function of Thyroid gland.
 - (2) Give main function of Spleen.
- (C) Answer the following questions : (any one) 3
- (1) Describe Hormonal regulation in control of renal function.
 - (2) Explain Neural regulation in control of renal function.
- (D) Answer the following questions : (any one) 5
- (1) Describe Histological structure of Pituitary gland.
 - (2) Describe Nitrogen waste.

- 4 (A) Answer the following questions : 4
- (1) How much area covered by Velavadar National park ?
 - (2) Explain pyramid of Biomass.
 - (3) What is other common name of Termite ?
 - (4) What is effect produced by Mosquito on human health ?
- (B) Answer the following questions : (any **one**) 2
- (1) Fauna of Shoolpaneshwar sanctuary.
 - (2) Fauna of Velavadar National park.
- (C) Answer the following questions : (any **one**) 3
- (1) Explain pyramid of Number.
 - (2) Explain Vansda National park.
- (D) Answer the following questions : (any **one**) 5
- (1) Explain Energy flow in eco-system.
 - (2) Insect affecting human health Mosquito.
- 5 (A) Answer the following questions : 4
- (1) Write Scientific name of Bombay duck fish.
 - (2) In which fish Placoid scales are present ?
 - (3) Which type of caudal fins are found in Chondrichthyes ?
 - (4) Name the mollusc which produce Pearl ?
- (B) Answer the following questions : (any **one**) 2
- (1) Explain Placoid scale.
 - (2) Difference between Chondrichthyes and Osteichthyes fish (any four)
- (C) Answer the following questions : (any **one**) 3
- (1) Explain Ganoid scale.
 - (2) Describe Pomfret fish.
- (D) Answer the following questions : (any **one**) 5
- (1) Describe Types of fins
 - (2) Explain Pearl oyster fisheries.