



Seat No. _____

HO-003-2014020

Second Year B. Sc. (Sem. IV)
(W.E.F. 2019) Examination
April - 2023
Zoology : Paper - Z - 04
(New Course)

Faculty Code : 003
Subject Code : 2014020

Time : $2\frac{1}{2}$ / Total Marks : 70

Instructions :

- (1) Draw neat and labelled diagram wherever necessary.
- (2) Figure to the right side indicate full marks for the question.

- 1 (a) Write the answers in short : **4**
- (1) Under which class, Sphenodone has been classified ?
 - (2) What is function of Lateral line system in Pisces ?
 - (3) In which Chordate, exoskeleton is made up by Hairs ?
 - (4) Write any one examples of Cyclostomata.
- (b) Write answers in short : **2**
- (1) What is short classifications of Hyla ?
 - (2) Write characteristics of Class Leptocharidii.
- (c) Write answers in short : **3**
- (1) Explain main general characteristics of class Amphibia.
 - (2) Describe main salient features of Class Chondrichthyes.
- (d) Explain : **5**
- (1) Draw classification chart of Chordate up to class with example.
 - (2) Classify with reasons – Loris.

- 2 (a) Write the answers in short : 4
- (1) Name the respiratory organ of Calotes.
 - (2) How many pairs of Testes are present in Calotes ?
 - (3) Name the snake species, which scientifically call as Naja nana.
 - (4) Write any two names of Poisonous snake.
- (b) Write answers in short : 2
- (1) Explain Morphology of Calotes.
 - (2) Write identification characteristics of King cobra.
- (c) Write answers in short : 3
- (1) Draw labelled diagram of Calotes Brain in Dorsal view.
 - (2) Describe First Aid treatment for Snake bite.
- (d) Explain : 5
- (1) Describe Digestive system of Calotes.
 - (2) Describe differences between poisonous and non-poisonous snakes.
- 3 (a) Write the answers in short : 4
- (1) Name the Urine structure of the Kidney.
 - (2) Write any two names of Nitrogenous Waste produced from animal body.
 - (3) Which hormones are produced by Thyroid gland ?
 - (4) Where, the Pituitary gland is located ?
- (b) Write answers in short : 2
- (1) How the control of Renal functions are happens ?
 - (2) What is function of Thyroid gland ?
- (c) Write answers in short : 3
- (1) Draw only labelled figure of Nephron.
 - (2) Describe histological structure of Spleen.
- (d) Explain : 5
- (1) Describe physiology of Urine formation.
 - (2) Describe histological structure of Lung.

- 4 (a) Write the answers in short : 4
- (1) Where the Vasda National Park is located ?
 - (2) Which animal is mainly protected in Ratanmahal Wildlife sanctuary ?
 - (3) What is scientific name of House fly ?
 - (4) Name the Biotic factor, which have photosynthesis ability.
- (b) Write answers in short : 2
- (1) Explain damages of Silverfish.
 - (2) Describe status and function of 'Carnivorous' in Ecosystem.
- (c) Write answers in short : 3
- (1) Describe the fauna of Shoolpaneswar Wildlife Sanctuary.
 - (2) Explain any one type of ecological pyramids.
- (d) Explain : 5
- (1) Describe Velavadar National Park in brief.
 - (2) Describe Termite as Damaging Insect.
- 5 (a) Write the answers in short : 4
- (1) Which scales are found in Chondichthyes fishes ?
 - (2) Name the molluscan species which produce Pearl.
 - (3) Write names of any two Anthropod species which are associated with Fisheries.
 - (4) Under which phylum, Lobster has been classified ?
- (b) Write answers in short : 2
- (1) Describe Cycloid scale.
 - (2) Explain scale which are found in Cartilage fishes ?
- (c) Write answers in short : 3
- (1) Describe Fines in fishes.
 - (2) Explain formation process of Pearl.
- (d) Explain : 5
- (1) Describe Pomfret fisheries with fishing gears.
 - (2) Write differences between Cartilage and Bony fishes.