



Seat No. _____

H-003-1016021

B. Sc. (Sem. VI) Examination

April - 2023

Zoology : Z-601

(Functional Anatomy of Chordate)

Faculty Code : 003

Subject Code : 1016021

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

Instructions :

- (1) Illustrate your answer with neat and labelled diagram.
- (2) Figures to right side indicate full marks of question.

- 1 (a) Objective type question : 4
- (1) Jacobson organ are present in the class _____
 - (2) Define : Triploblastic
 - (3) Define : any two characteristics of class Cephalochordata.
 - (4) Define : Craniata.
- (b) Answer in brief : (any one out of two) 2
- (1) Classify with reason : Hammer headed shark.
 - (2) Describe : Characteristics of class Urochordata.
- (c) Answer in detail : (any one out of two) 3
- (1) Difference between Acraniata and Craniata.
 - (2) Describe Class Amphibia with suitable examples.
- (d) Write a note on : (any one out of two) 5
- (1) Describe Mammals with suitable examples.
 - (2) Classify with reason : Hemidactylus and Eagle.

- 2 (a) Objective type questions : 4
- (1) Write the name of the organ of female rat reproductive system.
 - (2) Function of pectin.
 - (3) Scientific name : Pigeon.
 - (4) How is internal jugular vein formed ?
- (b) Answer in brief : (any one out of two) 2
- (1) Short note on Digestive System of pigeon (without diagram)
 - (2) Describe blood of rat.
- (c) Answer in detail : (any one out of two) 3
- (1) Draw and labelled : Arterial system of rat.
 - (2) Describe : Female urinogenital system in pigeon.
- (d) Write a note on : (any one out of two) 5
- (1) Describe : Arteria system in pigeon.
 - (2) Describe : Venous system in rat.
- 3 (a) Objective type question : 4
- (1) Define : Parental care.
 - (2) What is dipnoi ?
 - (3) Write a name of different fin type.
 - (4) Define : Aestivation.
- (b) Answer in brief : (any one out of two) 2
- (1) Note : Affinity in urochordata (any two)
 - (2) Write a note on Hibernation
- (c) Answer in detail : (any one out of two) 3
- (1) Describe: Affinity of dipnoi (any two)
 - (2) Describe : Migration in fish.
- (d) Write a note on : (any one out of two) 5
- (1) Describe : Parental care in fish
 - (2) Explain : Air bladder in fish.
- 4 (a) Objective type question : 4
- (1) Define : Claws
 - (2) Function of beaks.
 - (3) Define : Counter feathers.
 - (4) Any two name of egg lying mammals.

- (b) Answer in brief : (any one out of two) 2
 (1) Short note on sphenodon.
 (2) Define : Primates.
- (c) Answer in detail : (any one out of two) 3
 (1) Describe : Migration in birds.
 (2) Describe : Pouched mammals (any two)
- (d) Write a note on : (any one out of two) 5
 (1) Describe : types of feathers in bird.
 (2) Explain : egg lying mammals.
- 5** (a) Objective type question : 4
 (1) Define : Dentition formula in dog.
 (2) What is the function of nephron ?
 (3) Function of the gland in digestive system.
 (4) Define : dendrite
- (b) Answer in brief : (any one out of two) 2
 (1) Describe : Excretory system in reptiles.
 (2) Describe : Dentition formula.
- (c) Answer in detail : (any one out of two) 3
 (1) Describe : synapse and neuroglia.
 (2) Describe : Digestive system in aves and mammals.
- (d) Write a note on : (any one out of two) 5
 (1) Define : Types of teeth.
 (2) Define : Comparative account of brain (any two)
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