



DP-003-1016021

Seat No. _____

B. Sc. (Sem. VI) (CBCS) Examination

March - 2022

Zoology : Z-601

(Functional Anatomy of Chord. & Compara. Anatomy)

Faculty Code : 003

Subject Code : 1016021

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

[Total Marks : 70

- Instructions :** (1) Illustrate your answer with neat and labelled diagram.
(2) Figure on the right side indicates full marks of the questions.

- 1 (A) Give Answer to the following questions. 4
(1) Branchiostoma belongs to _____ class.
(2) Give an example of Agnatha.
(3) Give an example of limbless Amphibians.
(4) Oikopleura belongs to _____ class.
- (B) Give Answer in short : (Any 1 out of 2) 2
(1) Give distinctive characters of Cyclostoma with example.
(2) Give distinctive characters of Apoda.
- (C) Give Answer in detail : (Any 1 out of 2) 3
(1) Give general characters of Urochordate with an example.
(2) Give silent characters and classification of Metatheria.

- (D) Write a note on : (Any 1 out of 2) 5
- (1) Give characters of Aves with any 5 orders.
 - (2) Classify Pieces up to order giving important characters and suitable examples.
- 2** (A) Give Answer to the following questions. 4
- (1) Name the flight muscles in pigeon.
 - (2) Give the location of Preen glands in pigeon.
 - (3) Function of Epididymis in Rat.
 - (4) Which systemic arch is found in Rat?
- (B) Give Answer in short. (Any 1 out of 2) 2
- (1) Give function of Bulbourethral and preputial glands in Rat.
 - (2) Pecten in pigeon
- (C) Give Answer to the following question. (Any 1 out of 2) 3
- (1) Draw and labelled Male Reproductive system in Rat.
 - (2) Air sac in pigeon.
- (D) Write a note on : (Any 1 out of 2) 5
- (1) Describe Arterial system in pigeon.
 - (2) Describe Digestive system in Rat.
- 3** (A) Give Answer to the following questions. 4
- (1) Define Hibernation.
 - (2) Neoceratodus found in _____.
 - (3) What is Mermaid's purses.
 - (4) Give difference between physostomus and physoclitus Air bladder.
- (B) Give Answer in short : (Any 1 out of 2) 2
- (1) Define Heterocercal and Homocercal of fins in fish.
 - (2) Function of Air bladder in fish.

- (C) Give Answer in detail : (Any 1 out of 2) 3
- (1) Indirect Parental care in Amphibians
(Any 3 examples).
 - (2) Parental care in Fish
- (D) Write a note on : (Any 1 out of 2) 5
- (1) Neotony.
 - (2) Affinities in Dipnoi.
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- 4 (A) Give Answer to the following questions. 4
- (1) Give an examples of Pouched mammals.
 - (2) Define Aquatic mammals with examples.
 - (3) Define Anapsida skull.
 - (4) What is Blubber?
- (B) Give Answer in short : (Any 1 out of 2) 2
- (1) Types of Feet (Any 2)
 - (2) Wood-chiselling and Mud-probing type of beak.
- (C) Give Answer in detail : (Any 1 out of 2) 3
- (1) Sphenodon.
 - (2) Types of feathers in Birds.
- (D) Write a note on : (Any 1 out of 2) 5
- (1) Migration in Birds.
 - (2) Describe Primates with an example.
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- 5 (A) Give Answer to the following questions. 4
- (1) The function of scroll valve in Dog fish.
 - (2) The function of cerebrum.
 - (3) What is mesonephric kidney?
 - (4) Give the name of different parts of Rhombencephalon.

- (B) Give Answer to the question : (Any 1 out of 2) **2**
- (1) Define type of teeth based on their attachment with Jaw bone with examples.
 - (2) Define Diphyodont and Slenodont teeth.
- (C) Give Answer in detail : (Any 1 out of 2) **3**
- (1) Give comparative account of stomach in Elasmobranch and Reptiles.
 - (2) Describe the structure of stomach in Ruminant animals.
- (D) Write a note on : (Any 1 out of 2) **5**
- (1) Give comparative study of Pisces and Aves excretory system.
 - (2) Give comparative study of Reptiles and Mammals brain. (only dorsal view)
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