



DP-003-2016021

Seat No. _____

B. Sc. (Sem. VI) Examination

March - 2022

Zoology : Z-601

(Functional Anatomy of Chordates Comparative Study)

Faculty Code : 003

Subject Code : 2016021

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

[Total Marks : 70

Instructions : (1) Illustrate your answer with neat and labelled diagram.
(2) Figures on the right side indicate marks.

- 1 (A) Give Answer to the following questions. 4
- (1) Sea squid belongs to _____ class.
 - (2) Give an examples of Agnatha.
 - (3) Give an examples of limbless Amphibians.
 - (4) Sphyrana is commonly called _____ .
- (B) Give Answer in short. (Any 1 out of 2) 2
- (1) Give special characters of class Actinopterygii.
 - (2) Give distinctive characters of Aves.
- (C) Give Answer in detail. (Any 1 out of 2) 3
- (1) Give general characters of Cephalochordate with an example.
 - (2) Give classification of Amphibians up to order.
- (D) Write a note on. (Any 1 out of 2) 5
- (1) Classify Reptilian up to order giving important characters and suitable examples.
 - (2) Give classification of Theria with suitable examples.
- 2 (A) Give Answer to the following questions. 4
- (1) How many Air sacs present in pigeon?
 - (2) Which systemic arch is found in Rat?
 - (3) The function of Preen gland in Pigeon.
 - (4) The function of prostate gland in Rat.

- (B) Give Answer in short. (Any 1 out of 2) **2**
 (1) Describe accessory digestive glands in Rat.
 (2) Pecten in pigeon.
- (C) Give Answer to the following questions. (Any 1 out of 2) **3**
 (1) Draw an labelled male Reproductive system in Rat.
 (2) Air sac in pigeon.
- (D) Write a note on. (Any 1 out of 2) **5**
 (1) Describe Reproductive system in pigeon.
 (2) Describe Arterial system in Rat.
- 3** (A) Give Answer to the following questions. **4**
 (1) Define Amphidromous migration in fish.
 (2) Which type of parental care shows by Arius?
 (3) Why some frog known as Marsupial frogs in parental care?
 (4) Give difference between Direct and Indirect Parental care in Amphibians.
- (B) Give Answer in short. (Any 1 out of 2) **2**
 (1) Define Aestivation and Hibernation.
 (2) Write functions of Air bladder.
- (C) Give Answer in detail. (Any 1 out of 2) **3**
 (1) Migration in fish.
 (2) Neotony.
- (D) Write a note on. (Any 1 out of 2) **5**
 (1) Give a general account of Dipnoi and discuss their affinities.
 (2) Affinities of urochodata.
- 4** (A) Give Answer to the following questions. **4**
 (1) Typical prototherian character is _____ in male.
 (2) Which type of feet found in Quails?
 (3) Define Euryapsida skull.
 (4) What is bleen?
- (B) Give Answer in short. (Any 1 out of 2) **2**
 (1) Give special characters of Sphenodone.
 (2) Define Primates with an example.

- (C) Give Answer in detail. (Any 1 out of 2) 3
- (1) Give different types of beak in Birds.
 - (2) Describe Marsupials with examples.
- (D) Write a note on. (Any 1 out of 2) 5
- (1) Cetacean mammals.
 - (2) Temporal Fossae in Reptiles.
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- 5 (A) Give Answer to the following questions. 4
- (1) Give example of Toothless mammals.
 - (2) Give the function of cerebrum?
 - (3) In urodels conus is reduced and replaced by a _____.
 - (4) Which type of teeth develops in Platypus and Marsupials?
- (B) Give Answer to the question. (Any 1 out of 2) 2
- (1) Describe Bunodont and selenodont teeth.
 - (2) Give Dental formula of Horse, Cow.
- (C) Give Answer in detail. (Any 1 out of 2) 3
- (1) Types of teeth according to attachment with Jaw bone.
 - (2) Give comparison between Pisces and reptilians brain.
- (D) Write a note on. (Any 1 out of 2) 5
- (1) Give comparative study of Aortic arches in Pisces and Aves.
 - (2) Give comparative study of heart in Amphibians and mammals.
