

B.Sc. Semester - 6 (CBCS) Examination**March/April-2024 (OLD COURSE)****FUNC ANATOMY OF CHORDATES AND COMPA. STUDY(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1(A) Answer the following question. (Any one out of two) (07)
1. Give the salient features of class amphibia and classify it up to orders with suitable examples.
 2. Give the salient features of subphylum cephalochordate and classify it up to orders with suitable examples.
- Que.1(B) Answer the following question. (Any one out of two) (04)
1. Give salient features of class Thaliacea with suitable example.
 2. What are the major differences between Chondrichthyes and Osteichthyes.
- Que.1(C) Answer the following question. (Any three out of five) (03)
1. Which era is known as golden period of reptiles?
 2. Which type of kidney present in aves?
 3. which type of scales is present in Chondrichthyes.
 4. lung fishes are classified in which class?
 5. Turtles and tortoises are classified in which order?
- Que.2(A) Answer the following question. (Any one out of two) (07)
1. Explain in details: Air sacs in pigeon.
 2. Describe the Arterial system of Rat with labelled diagram.
- Que.2(B) Answer the following question. (Any one out of two) (04)
1. Draw a labelled diagram of pigeon male reproductive system.
 2. Draw a labelled diagram of Rat venous system.
- Que.2(C) Answer the following question. (Any three out of five) (03)
1. Give only two names of glands present in male reproductive system in rat.
 2. Give the name of order in which Rat belongs.
 3. In Rat, pulmonary aorta arises from _____.
 4. Pigeon's milk is produced In which part of the digestive system?
 5. Which part of pigeon digestive system helps in grinding tough food grains?
- Que.3(A) Answer the following question. (Any one out of two) (07)
1. Give the structure and function of Air-bladder in fishes.
 2. What is neoteny? Describe various types of neoteny with suitable examples.
- Que.3(B) Answer the following question. (Any one out of two) (04)
1. Write a short note on: Types of Caudal fins in fishes.
 2. Parental care in Amphibia with two suitable examples
- Que.3(C) Answer the following question. (Any three out of five) (03)
1. Heterocercal caudal fin is found in which class of fishes?
 2. Axolotal larva is a well-known example of which biological phenomenon?
 3. Which fish is an example of parental care where they carry eggs in mouth?
 4. The process of inactivity/resting during hot period is termed as_____.
 5. Give two examples of dipnoid fish.
- Que.4(A) Answer the following question. (Any one out of two) (07)
1. Explain bird migration in detail.
 2. Describe: sphenodon as a living fossil and affinities.

- Que.4(B) Answer the following question. (Any one out of two) (04)
1. Write a note on order primate.
 2. Write a note on the types of beaks in birds.
- Que.4(C) Answer the following question. (Any three out of five) (03)
1. Flying mammals are included in which order?
 2. Platypus is a placental mammal. (True/ False)
 3. Flamingo has which type of beak?
 4. Which continents have marsupials?
 5. Egg laying mammals are placed in which order?
- Que.5(A) Answer the following question. (Any one out of two) (07)
1. Write a detailed account of evolution and development of brain in vertebrates.
 2. Describe types of teeth and dental formula in mammals.
- Que.5(B) Answer the following question. (Any one out of two) (04)
1. Write a short note on Ruminant stomach.
 2. Write a short note on Metanephric kidney.
- Que.5(C) Answer the following question. (Any three out of five) (03)
1. Anterior part of stomach is known as ____.
 2. Which type of kidney found in mammals?
 3. Cavity of optic lobe is ____.
 4. When teeth are similar in shape and size is known as ____.
 5. Dental formula of dog is ____.
