

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov - 2023 (NEW COURSE)****Functional Anatomy of Chordates, Systematic, Forms & Functions and Comparative Anatomy(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 questions. (any one out of two) (07)
1. Classify subphylum urochordata upto class with suitable examples.
 2. Classify super class pisces up to class with suitable examples.
- Que.1(B) Answer the following questions. (any one out of two) (04)
1. Classify class Amphibia up to order.
 2. Classify class Aves upto super order.
- Que.1(C) Answer the following questions. (any three out of five) (03)
1. Pyrosoma and Doliolum belongs to class.....
 2. Hammer headed shark belongs to class.....
 3. Paired limbs and pentadactylous claws is the peculiar character of class.....
 4. Give any two examples of super order palaeognathae.
 5. Armadillo belongs to sub class.....
- Que.2(A) Answer the following questions. (any one out of two) (07)
1. Describe 5th, 7th, 9th, 10th Cranial nerves of Scoliodon.
 2. Describe Urinogenital system of pigeon.
- Que.2(B) Answer the following questions. (any one out of two) (04)
1. Sketch and label: Digestive system of Scoliodon.
 2. Sketch and label: Artial system of pigeon.
- Que.2(C) Answer the following questions. (any three out of five) (03)
1. In scoliodon how many afferent branchial arteries arises from ventral aorta?
 2. In Scoliodon testes attached to abdominal body wall by a peritoneum is called.....
 3. Scientific name of pigeon is.....
 4. In pigeon coeliac artery supplies blood to.....
 5. Pigeon's milk is manufactured in
- Que.3(A) Answer the following questions. (any one out of two) (07)
1. Describe affinities of Dipnoi in detail.
 2. Give a general account of air bladder in Fishes.
- Que.3(B) Answer the following questions. (any one out of two) (04)
1. Describe different types of Caudal fins in Fishes.
 2. Write a short note on parental care in Amphibia with any two examples.
- Que.3(C) Answer the following questions. (any three out of five) (03)
1. In structure of air bladder Red gland receives blood from artery.
 2. During parental care in fishes which female transfers eggs in to a brood pouch to the belly of male.
 3. How many external gills found in Axolotl larva?
 4. During parental care in Amphibia, male protects eggs up to hatching by coiling around them.
 5. Axolotl larva is the larvae of

- Que.4(A) Answer the following questions. (any one out of two) (07)
1. Give a general account of sphenodon.
 2. Describe dentition in mammal in detail.
- Que.4(B) Answer the following questions. (any one out of two) (04)
1. Write a short note on different types of feathers in Aves.
 2. Write a short note on Aquatic Mammals.
- Que.4(C) Answer the following questions. (any three out of five) (03)
1. Which type of skull found in turtle?
 2. Which type of feet found in eagles and kites?
 3. Archaeopteryx belongs to sub-class.....
 4. Kangaroo belongs to order
 5. Canines are absent in some herbivores and leaving a wide toothless space is called as.....
- Que.5(A) Answer the following questions. (any one out of two) (07)
1. Give a comparative account of Pronephrous and metanephrous kidney in vertebrates.
 2. Give a general account of origin and evolution of brain in vertebrates.
- Que.5(B) Answer the following questions. (any one out of two) (04)
1. Sketch and label: Brain of Aves.
 2. Write a short note on stomach of ruminant mammals.
- Que.5(C) Answer the following questions. (any three out of five) (03)
1. Zymogen cells of stomach produce
 2. First part of small intestine is known as
 3. Functional unit of kidney is
 4. Cavity of diencephalon is known as.....
 5. List out the parts of hind brain.
