

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov - 2022 (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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- Q. 1 (A) Answer the following questions. (Any one out of two)** **07**
1. Classify super class pisces up to class with suitable examples.
 2. Classify class mammals upto order with suitable examples.
- Q. 1 (B) Answer the following questions. (Any one out of two)** **04**
1. Classify class Amphibia up to order.
 2. Classify class Reptiles up to order.
- Q. 1 (C) Answer the following questions. (Any three out of five)** **03**
1. Hammer headed shark belongs to class.....
 2. Ambystoma belongs to order.....
 3. Give any two examples of non- poisonous snakes.
 4. Give any two examples of group Ratitae.
 5. Rabbit belongs to subclass.....
- Q. 2 (A) Answer the following questions. (Any one out of two)** **07**
1. Describe brain of scoliodon.
 2. Describe digestive system of pigeon.
- Q. 2 (B) Answer the following questions. (Any one out of two)** **04**
1. sketch and label: 5th , 7th , 9th and 10th cranial nerves of scoliodon
 2. Sketch and label: Male urinogenital system of pigeon.
- Q. 2 (C) Answer the following questions. (Any three out of five)** **03**
1. Give the name of 1st cranial nerve of scoliodon.
 2. Which type of scales found in scoliodon?
 3. In scoliodon , at the junction of cardiac and pyloric stomach there is a blind outgrowth, is known as.....
 4. In pigeon ovary remains attached to the kidney by double fold peritoneum is known as.....
 5. In pigeon which artery Carries blood to rectum and cloacal region?
- Q. 3 (A) Answer the following questions. (Any one out of two)** **07**
1. Give a general account of dipnoi.
 2. Describe structure, types and function of airbladder in pisces.
- Q. 3 (B) Answer the following questions. (Any one out of two)** **04**
1. Write a shortnote on neotony.
 2. Describe different type of caudal fins in fishes.

- Q. 3 (C) Answer the following questions. (Any three out of five)** **03**
1. Which type of caudal fin found in chondrichthyes?
 2. When air bladder is connected to pharynx through pneumatic duct, this type of air bladder is known as.....
 3. Axolotal larvae is the best example of.....
 4. How many airbladder found in neoceratodus ?
 5. Which amphibian carries eggs on his back during parental care ?
- Q. 4 (A) Answer the following questions. (Any one out of two)** **07**
1. Give a general account of dentition in mammals.
 2. Give a general account of sphenodon.
- Q. 4 (B) Answer the following questions. (Any one out of two)** **04**
1. Write a short note on Diapsid skull in reptiles.
 2. Write a short note on different types beaks in aves with suitable examples.
- Q. 4 (C) Answer the following questions. (Any three out of five)** **03**
1. Give any two examples of marsupials.
 2. Give any two examples of aquatic mammals.
 3. Archaeopteryx belongs to sub-class.....
 4. Which type of feet found in eagle and kite?
 5. Dentition of goat is.....
- Q. 5 (A) Answer the following questions. (Any one out of two)** **07**
1. Give a comparative account of mesonephrous and metanephrous kidney in vertebrates.
 2. Give a general account of origin and evolution of brain in vertebrates.
- Q. 5 (B) Answer the following questions. (Any one out of two)** **04**
1. Sketch and label: brain of reptiles.
 2. Give a comparative account of stomach in Aves and mammals.
- Q. 5 (C) Answer the following questions. (Any three out of five)** **03**
1. List out the parts of fore brain.
 2. Cavity of optic lobes is known as.....
 3. Which type of kidney found in reptiles?
 4. The first part of the stomach next to oesophagus is known as region while the lower end is known as..... region.
 5. The first part of small intestine is known as.....
