

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov - 2021 (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 class reptiles up to order with suitable examples.
 2. Classify super class pisces up to class 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 aves up to super order.
- Q.1(C) Answer the following questions. (Any three out of five) (03)
1. Guitar fish belongs to class.....
 2. Necturus belongs to order.....
 3. Give any two examples of poisonous snakes.
 4. Emu and kiwi belongs to subclass.....
 5. Rabbit belongs to subclass.....
- Q.2(A) Answer the following questions. (Any one out of two) (07)
1. Describe Digestive system of scoliodon.
 2. Describe Arterial system of pigeon.
- Q.2(B) Answer the following questions. (Any one out of two) (04)
1. Sketch and label: Male urinogenital system of scoliodon.
 2. Sketch and label: Digestive system of pigeon.
- Q.2(C) Answer the following questions. (Any three out of five) (03)
1. Give the name of 9th cranial nerve of scoliodon.
 2. Which type of caudal fin found in scoliodon?
 3. Scroll valve is found in the of scoliodon.
 4. Testis attached to the kidney by a double fold of peritoneum is called as
 5. A comb like structure called..... is present in the pigeon eye.
- Q.3(A) Answer the following questions. (Any one out of two) (07)
1. Describe structure and function of airbladder in pisces.
 2. Give a general account of dipnoi.
- Q.3(B) Answer the following questions. (Any one out of two) (04)
1. Describe different type of caudal fins in fishes.
 2. Give any two examples of parental care in amphibia.

- Q.3(C) Answer the following questions. (Any three out of five) (03)
1. Homocercal type caudal fin is the characteristic of
 2. When air bladder is not connected to pharynx through pneumatic duct. This type of air bladder is known as.....
 3.is the best example of neotony.
 4. Ichthyophis guards their eggs by.....
 5. How many airbladders found in protopterus.
- Q.4(A) Answer the following questions. (Any one out of two) (07)
1. Give a general account of pouched mammals.
 2. Give a general account of dentition in mammals.
- Q.4(B) Answer the following questions. (Any one out of two) (04)
1. Write a short note on Anapsid skull in reptiles.
 2. Write a short note on different types claws in aves with suitable examples.
- Q.4(C) Answer the following questions. (Any three out of five) (03)
1. is the connective link between reptiles and mammals.
 2. Whales and dolphins are the best examples of.....
 3. Which type of beak found in crow?
 4. Which type of feet found in eagle and kite?
 5. Dentition of dog is.....
- Q.5(A) Answer the following questions. (Any one out of two) (07)
1. Give a general account of evolution of brain in vertebrates.
 2. Give a comparative account of stomach and intestine in vertebrates.
- Q.5(B) Answer the following questions. (Any one out of two) (04)
1. Write a short note on metanephros kidney in vertebrate.
 2. Sketch and label: Brain of Reptiles.
- Q.5 (C) Answer the following questions. (Any three out of five) (03)
1. List out any two parts of hind brain.
 2. Cavity of cerebral hemisphere is known as.....
 3. Which type of kidney found in mammals?
 4. Oral cavity originated from which part of primitive gut?
 5. Optic lobe is the part ofbrain.
