

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**Feb/Mar. -2021 (NEW COURSE)****Functional Anatomy of Chordates, Systematic, Forms & Functions and Comparative Anatomy (Core)****Time: 1:30 Hours****Marks: 42****Instructions:**

1. Figures to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

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- Q. 1 (A) Answer the following questions. (Any one out of two)** **07**
1. Classify class Amphibia up to order with suitable examples.
 2. Classify class Aves up to super orders with specific characters.
- Q. 1 (B) Answer the following questions. (Any one out of two)** **04**
1. Classify class reptiles up to order with suitable examples.
 2. Classify super class pisces up to class with suitable examples.
- Q. 1 (C) Answer the following questions. (Any three out of five)** **03**
1. List out the scales found in osteichthyes.
 2. Absence of exoskeleton is the peculiar character of class.....
 3. Pentadactylous claws and paired appendages is the character of class.....
 4. Pygostyle is the peculiar character of class.....
 5. Platypus belongs to class.....
- Q. 2 (A) Answer the following questions. (Any one out of two)** **07**
1. Describe brain of scoliodon with suitable diagram.
 2. Describe digestive system of pigeon with suitable diagram.
- Q. 2 (B) Answer the following questions. (Any one out of two)** **04**
1. Draw neat and labeled diagram –Digestive system of scoliodon.
 2. Draw neat and labeled diagram –Arterial system of pigeon.
- Q. 2 (C) Answer the following questions. (Any three out of five)** **03**
1. Which type of scales found in scoliodon?
 2. Which valve is present at the junction of cardiac stomach and pyloric stomach?
 3. Give the name of 10th cranial nerve of scoliodon.
 4. Pigeon's milk is manufactured in.....
 5. In pigeon, gizzard is used for.....
- Q. 3 (A) Answer the following questions. (Any one out of two)** **07**
1. Give a general account of parental care in amphibia.
 2. Describe general organization and affinities of dipnoi.
- Q. 3 (B) Answer the following questions. (Any one out of two)** **04**
1. Describe structure of air- bladder in fishes.
 2. Write a short note: Caudal fin in fishes.
- Q. 3 (C) Answer the following questions. (Any three out of five)** **03**
1. List out the fishes included in dipnoi.
 2. Which type of caudal fin generally found in teleost?
 3. The phenomenon of neotony is shown in class.....
 4. In hippocampus, the female transfers eggs into aon the belly of male for hatching.
 5. Give any one example of animal which shows eggs glued to body by parents.

- Q. 4 (A) Answer the following questions. (Any one out of two)** **07**
1. Give a general account of temporal fossae in reptiles.
 2. Describe dentition in mammals.
- Q. 4 (B) Answer the following questions. (Any one out of two)** **04**
1. Write a short note on Archaeopteryx.
 2. Write a short note on aquatic mammals.
- Q. 4 (C) Answer the following questions. (Any three out of five)** **03**
1. Which type of beak found in pelican?
 2. Which type of feet found in sparrow and crow?
 3. Which type of skull found in lizard?
 4. Which type of teeth found in mammals?
 5. Give any two examples of marsupials.
- Q. 5 (A) Answer the following questions. (Any one out of two)** **07**
1. Give comparative account of intestine in vertebrates.
 2. Compare the brain of pisces and reptiles with suitable diagram.
- Q. 5 (B) Answer the following questions. (Any one out of two)** **04**
1. Give a comparative account of mesonephros and metanephros kidney in vertebrates.
 2. Draw neat and labeled diagram: Avian brain.
- Q. 5 (C) Answer the following questions. (Any three out of five)** **03**
1. Oesophagus in adult vertebrates is derived from.....
 2. Functional unit of kidney is.....
 3. Archonephros is found in
 4. Cavity of diencephalon is known as.....
 5. Metacoel is the cavity of
