

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**March/April-2026 (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) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
- (1) Classify super class Pisces up to class.
 - (2) Classify class Reptiles up to order.
- Que.1(B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
- (1) Classify sub-phylum Urochordata up to class.
 - (2) Classify class Amphibia up to order.
- Que.1(C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
- (1) Which type of scales found in bony fishes ?
 - (2) Necturus and proteus belongs to class
 - (3) Give any two examples of poisonous snakes.
 - (4) Archaeopteryx is the connecting link between class..... and
 - (5) Presence of mammary gland is peculiar character of class
- Que.2(A) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
- (1) Describe brain of Scoliodon.
 - (2) Describe digestive system of Pigeon.
- Que.2(B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
- (1) Sketch and label digestive system of Scoliodon.
 - (2) Sketch and label Arterial system of Pigeon.
- Que.2(C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
- (1) How many lobes are there in the liver of Scoliodon ?
 - (2) Scientific name of Scoliodon is
 - (3) Which type of caudal fin found in Scoliodon ?
 - (4) Scientific name of Pigeon
 - (5) In Pigeon, give the function of crop.
- Que.3(A) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
- (1) Describe types, structure and function of air-bladder in fishes.
 - (2) Give a general account of Dipnoi.
- Que.3(B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
- (1) Write a short note on caudal fins in fishes.
 - (2) Write a short note on parental care in Amphibia with any two suitable examples.
- Que.3(C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
- (1) Homocercal type caudal fin is the characteristic of
 - (2) In fishes, when air bladder is attached to pharynx through pneumatic duct, this type of air bladder is known as.....
 - (3) is the best example of neotony.
 - (4) Which type of parental care found in hippocampus ?
 - (5) List out the names of lung fishes.

- Que.4(A) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
- (1) Write a short note on Sphenodon as living fossil.
 - (2) Give a general account of Dentition in mammals.
- Que.4(B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
- (1) Write a short note on types of feathers in birds.
 - (2) Write a short note on different types of claws in Aves.
- Que.4(C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
- (1) Which type of skull found in lizard and crocodile ?
 - (2) Which type of beak found in woodpecker ?
 - (3) Platypus is the best example of
 - (4) Give any two examples of aquatic mammals.
 - (5) Give any two examples of marsupials.
- Que.5(A) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (07)
- (1) Give comparative account of Pronephrous and Metanephrous kidney.
 - (2) Give comparative account of Brain of Reptiles and Aves.
- Que.5(B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) (04)
- (1) Give the comparative account of small intestine in vertebrates.
 - (2) Sketch and label: Brain of Amphibia.
- Que.5(C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) (03)
- (1) Which enzyme is secrete by salivary gland in mammals ?
 - (2) Which type of functional kidney found in reptiles ?
 - (3) First part of small intestine is known as
 - (4) List out the parts of fore brain.
 - (5) Cavities of optic lobe is known as
