

B.Sc. Semester - 6 (CBCS) Examination**March/April -2019****FUNC ANATOMY OF CHORDATES AND COMPA. STUDY(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 with characters up to class and give classification of hammer headed shark and Barbus up to order.
2. Classify class Amphibia with characters and give the classification of Bombinator and uraeotyphlus up to order.

QUE-1 (B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [04]

1. Describe peculiar character of class mammals up to order and give the classification of Talpa and porcupine up to order.
2. Describe peculiar character of class Reptiles up to order and give the classification of hemidactylus and krait up to order.

QUE-1 (C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) [03]

1. Give any three character of class Aves.
2. Archaeopteryx is the connecting link between class And
3. Salpa belongs to sub phylum class and order
4. Russell's viper belongs to class order And sub order
5. Paired limbs, pentadactylus with claws are the peculiar characters of class

QUE-2 (A) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [07]

1. Describe digestive system of the Pigeon.
2. Describe arterial system of Rat.

QUE-2 (B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [04]

1. Sketch and label: Arterial system of Columba livia.
2. Sketch and label: Venous system of Rat.

QUE-2 (C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) [03]

1. What is pigeon's milk?
2. What is pecten?
3. In embryonic stage of pigeon are present Ovary and oviduct.
4. Pulmonary aorta arises from and carries blood to the lungs in Rat.
5. Which artery carries blood to forelimbs in rat?

QUE-3 (A) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [07]

1. Describe parental care in Amphibia and fishes with suitable examples.
2. Describe type, structure and function of air bladder in fishes.

QUE-3 (B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [04]

1. Write a short note: Caudal fin in fishes.
2. Describe general organization and affinities of dipnoi.

QUE-3 (C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) [03]

1. The best example of neotony is
2. What is aestivation?
3. Which type of caudal fin found in chondrichthyes , osteichthyes and dipnoi.
4. In fishes when air bladder is not attached to pharynx , this type of air bladder known as
5. Give the best example of nest building type of parental care in fish.

QUE-4 (A) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [07]

1. Give a general account of marsupials and affinities of it.
2. Give a general account of sphenodon as living fossil and affinities of it.

QUE-4 (B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [04]

1. Describe different type feathers in birds.
2. Describe Diapsid and synapsid skulls in Reptiles.

QUE-4 (C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) [03]

1. Define latitudinal migration with one suitable example.
2. Chevron bones and third eye present in
3. Bats included in order
4. Typical prototherian character is
5. Which type of beak found in parrot and pelican.

QUE-5 (A) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [07]

1. Give a general account of dentition in mammals.
2. Give comparative account of stomach and intestine in vertebrates.

QUE-5 (B) ANSWERS THE FOLLOWING QUESTIONS. (ANY ONE OUT OF TWO) [04]

1. Write a short note : Metanephric kidney
2. Write a short note on brain of pisces.

QUE-5 (C) ANSWERS THE FOLLOWING QUESTIONS. (ANY THREE OUT OF FIVE) [03]

1. In structure of brain presence of in forebrain region is the specific character of mammalian brain.
2. Difference between urinary system and urinogenital system.
3. In ruminating mammals gastric glands are present in part of stomach.
4. List out types of attachment of teeth with jaw bone.
5. Give the dental formula of goat.
