

B.Sc. Semester - 6 (CBCS) Examination**March/April -2020****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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Q. 1 (A) Answer the following questions. (Any one out of two) 07

1. Classify class Reptiles up to order and give classification of Hemidactylus.
2. Classify class mammals up to infraclass and give classification of Talpa.

Q. 1 (B) Answer the following questions. (Any one out of two) 04

1. Classify class Amphibia up to order with suitable examples.
2. Classify super class Pisces up to class with peculiar features and suitable examples.

Q. 1 (C) Answer the following questions. (Any three out of five) 03

1. Ciona belongs to class and order
2. Lamprey belongs to class and order
3. Epidermal scales, paired appendages and presence of cloaca is the peculiar character of class.....
4. is the connecting link between class Reptiles and Aves.
5. Porcupine belongs to infra class And order

Q. 2 (A) Answer the following questions. (Any one out of two) 07

1. Describe brain of the common rock pigeon.
2. Describe Arterial system of rat.

Q. 2 (B) Answer the following questions. (Any one out of two) 04

1. Draw neatly labeled diagram of Arterial system of Columba livia.
2. Draw neatly labeled diagram - Venous system of Rat.

Q. 2 (C) Answer the following questions. (Any three out of five) 03

1. A comb like structure called Is present in the cavity of eye , ventral to the blind spot.
2. Coccoygeo- mesentric vein collects blood from.....
3. List out associated glands found in head region of Rat.
4. In Rat, Which veins collect blood from the lumbar region?
5. In Rat, which artery supplies blood to kidney?

Q. 3 (A) Answer the following questions. (Any one out of two) 07

1. Describe in detail type, structure and function of air bladder in fishes.
2. Give the general account of Dipnoi.

- Q. 3 (B) Answer the following questions. (Any one out of two)** **04**
1. Write a short note: Caudal fin in fishes.
 2. Write a short note on parental care in Amphibia.
- Q. 3 (C) Answer the following questions. (Any three out of five)** **03**
1. Brood pouches are developed in On the belly of male.
 2. type caudal fin found in osteichthyes.
 3. Define: Hybernation.
 4. Axolotal larva is the best example of
 5. The main function of Air bladder in fishes is to maintain
- Q. 4 (A) Answer the following questions. (Any one out of two)** **07**
1. Describe egg laying mammals in detail.
 2. Describe spheonodon as a living fossil.
- Q. 4 (B) Answer the following questions. (Any one out of two)** **04**
1. Describe Anapsid and Diapsid skull in Reptiles.
 2. Write a short note: types of claws in birds.
- Q. 4 (C) Answer the following questions. (Any three out of five)** **03**
1. Give the example of longitudinal migration.
 2. Which type of beak found in humming birds?
 3. Whalebone whale belongs to order While monkey belongs to order.....
 4. Which type of the skull found in Turtle and Lizard?
 5. In marsupialia, abdominal pouch is supported with a pair of
- Q. 5 (A) Answer the following questions. (Any one out of two)** **07**
1. Give a general account of dentition in mammals and give the dental formula of Dog.
 2. Give the comparative account of kidney in vertebrates.
- Q. 5 (B) Answer the following questions. (Any one out of two)** **04**
1. Describe origin and evolution of brain in vertebrates.
 2. Give a comparative account of intestine in vertebrates.
- Q. 5 (C) Answer the following questions. (Any three out of five)** **03**
1. Canines are absent in some herbivores and leaving a wide toothless space is called
 2. In ruminating mammals gastric glands are present in part of stomach.
 3. Archinephros is found in
 4. List out the parts of fore brain.
 5. Give the dental formula of pig.
