



P-003-001641 Seat No. _____

B. Sc. (Sem. VI) (CBCS) Examination

March / April – 2020

Zoology : Paper - Z - 601

(Functional Anatomy of Chordates)

(Old Course)

Faculty Code : 003

Subject Code : 001641

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70]

Instructions :

(1) Draw neat and labelled diagram where necessary.
(2) Number to the right side indicate full marks of the questions.

1 Give the answer of following questions : **20**

- (1) How many Air sac present in Pigeon ?
- (2) Dental formula of Goat.
- (3) Define Catadromous migration.
- (4) _____ is known living fossile.
- (5) Which type of kidney found in Mammals ?
- (6) The Cheetah and jackals are include in order carnivorous. True or false.
- (7) The two chambered, single circulation venous heart present in _____.
- (8) Axolotal larva is larva of _____.
- (9) The function of cerebrum in brain.
- (10) The sea squirt belongs to _____ class.
- (11) Which type of caudal fin found in Shark.
- (12) Give an example of Egg laying mammals.
- (13) Give the name of thick subcutaneous layer of fat in Aquatic mammals.
- (14) Which type of skull found in calotes ?
- (15) The scientific name of Rat.
- (16) The coccoygeo-mesentric vein collect blood from which organ.

(17) The function of crop in Pigeon.
 (18) The function of Cowper's gland in Rat.
 (19) Give the example of Flightless bird.
 (20) In which animal Selenodont teeth is found ?

2 (a) Write any three out of six. **6**

(1) Classify Cobra up to order.
 (2) Define Parapsida skull.
 (3) Aestivation in Amphibia.
 (4) Define Blunodont teeth.
 (5) The function of Uropygeal and Femoral gland.
 (6) Define physoclitus air bladder.

(b) Write any three out of six. **9**

(1) Write note on sphenodon.
 (2) The function of Air bladder.
 (3) The caudal fin in fish.
 (4) Draw and labelled internal structure of heart in Pigeon.
 (5) Describe direct parental in Amphibia.
 (6) Types of feather in Pigeon.

(c) Write any two out of five. **10**

(1) Describe Digestive system of Pigeon.
 (2) Give the comparative account of Heart in Amphibian and Aves.
 (3) Write a note on Ratitiae.
 (4) Describe Parental care in fish with example.
 (5) Explain Flying Mammals with examples.

3 (a) Write any three out of six. **6**

(1) The Anapsida skull in reptiles.
 (2) Define hibernation with example.
 (3) Give the dental formula in Dog and Horse.
 (4) Describe the poisonous and sent glad.
 (5) Classify the Mid-wife-toad up to order.
 (6) Describe Lophodont teeth.

(b) Write any three out of six. 9

- (1) Physostomous Air bladder.
- (2) Attachment of teeth in vertebrate.
- (3) Migration in Bird (any three)
- (4) Affinities of Dipnoi with elasmobranch.
- (5) Neotony.
- (6) Write a note on primates.

(c) Write any two out of five. 10

- (1) Affinities of urochodata.
- (2) Describe male reproductive system in Pigeon.
- (3) The comparative account of Aortic arch in Fish and Mammals.
- (4) Aquatic mammals.
- (5) Pouched mammals.
