



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 coccyo-geo-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 Ratithea.
 - (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 urochordata.
 - (2) Describe male reproductive system in Pigeon.
 - (3) The comparative account of Aortic arch in Fish and Mammals.
 - (4) Aquatic mammals.
 - (5) Pouched mammals.
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