



JA-003-001641

Seat No. _____

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

August - 2019

Zoology : Z-607

(Functional Anatomy of Chordates & Comp. Anatomy) (Old Course)

Faculty Code : 003

Subject Code : 001641

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

[Total Marks : 70

- Instructions:** (1) Illustrate your answers with neat and labelled diagrams.
(2) Figures to the right side indicate full marks of the question.

- 1 Give the answers of following Questions : **20**
1. Which type of Metamorphosis is found in Urochordata?
 2. Write example of Cephalochordata.
 3. Write salient features of Gnathostomata.
 4. Write any two examples of Prototherian animals.
 5. Write scientific name of Pigeon.
 6. Which systemic arch is present in Rat ?
 7. The secretion of sebaceous gland is known as.....
 8. Which Reptilian animal is known as Living fossil ?
 9. Give any two examples of Ratitae birds.
 10. Define Marsupium.
 11. In which animal Uropygial gland is present ?
 12. Which type of kidney is present in Rat ?
 13. Define skull of Anapsidan animal.
 14. Define Heterocercal caudal fin.
 15. Write names of different types feathers found in Pigeon.
 16. Enlist different orders of Living Amphibia.
 17. Which heart is known as venous heart ?

18. First aortic arch is also known as.....
19. Write names of different structures of fore brain.
20. Define Monophyodont type teeth.

- 2** (A) Any three out of six : **6**
1. Write name and function of air sac found in Pigeon.
 2. Write salient features of Prototheria.
 3. Write dental formula of Horse and Goat.
 4. Which aortic arch remains functional in Pigeon?
 5. Specify the subclass of crocodile.
 6. Define Catadromous and Anadromous migration.
- (B) Any three out of six : **9**
1. Write salient features of order chiorptera along with example.
 2. Define altitudinal and latitudinal migration.
 3. Define Aestivation and Hibernation.
 4. Discuss affinities of Dipnoi with Amphibia.
 5. Classify teeth based on their attachment with jaw bones.
 6. Describe sudoriferous gland.
- (C) Any two out of five : **10**
1. Describe temporal fossae in reptiles.
 2. Describe digestive system of rat.
 3. Describe different types air bladder found in fishes.
 4. Write note on Neoteny.
 5. Give comparative account of heart in Pisces and Aves.
- 3** (A) Any three out of six **6**
1. Enlist different super orders of subclass Neornithes.
 2. Describe Pecten in Pigeon.
 3. Define cetacean animal with example.
 4. Define the significant function of Cerebellum.
 5. Describe femoral gland.
 6. Enlist different classes of subphylum Urochordata with examples.

- (B) Any three out of six 9
1. Write salient features of order Chelonia.
 2. Write salient features of Dipnoi.
 3. Give affinities of Urochordata with Cephalochordata.
 4. Write significant features of Ratitae birds.
 5. Write reptilian characters of Archaeopteryx.
 6. Give comparative account of fore brain in Pisces and Amphibia.
- (C) Any two out of five 10
1. Write general characters of superclass Pisces.
 2. Describe female reproductive system of Pigeon.
 - 3: Write note on parental care in Amphibia by indirect caring.
 4. Give comparative account of heart in Reptiles and Mammals.
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