

Seat No.: \_\_\_\_\_

No. of Printed Pages: 2

[53]

SARDAR PATEL UNIVERSITY

B.Sc., FIFTH SEMESTER EXAM-2019

ZOOLOGY, US05CZOO02 (COMPARATIVE ANATOMY OF CHORDATES)

DATE: 13-11-2019

TIME: 10 am to 1pm.

DAY: WEDNESDAY

MARKS: 70

Q-1. MULTIPLE CHOICE QUESTIONS.

(10)

1. Seed-eating birds usually have..... type of beaks.  
(a) Long & narrow      (b) Short & blunt      (c) Spoon shaped      (d) Long & hooked
2. The cells die & discharged their secretion is known as ..... glands.  
(a) Holocrine      (b) Apocrine      (c) Merocrine      (d) Endocrine
3. Most elasmobranch fishes contained which type of scales?  
(a) Cycloid      (b) Placoid      (c) Ganoid      (d) Ctenoid
4. Oral hood is the characteristic of  
(a) Birds      (b) Amphibians      (c) Fishes      (d) Amphioxus
5. The space between the lips and Jaws is known as  
(a) Vestibule      (b) Cheeks      (c) Labial frenum      (d) None of these
6. Spiral valves are present in the intestine of  
(a) Frog      (b) Calotes      (c) Shark      (d) Pigeon
7. The ruminant stomach is the characteristic of  
(a) Amphibians      (b) Reptiles      (c) Aves      (d) Herbivorous mammal
8. The crop glands are present in  
(a) Cyclostomes      (b) Birds      (c) Amphibians      (d) Reptiles
9. Which vein carries the blood from alimentary canal to liver?  
(a) Renal portal      (b) Hepatic      (c) Hepatic portal      (d) Pulmonary
10. Name the first aortic arch  
(a) Hyoid      (b) Mandibular      (c) Pulmonary      (d) Systemic

(1)

(PTO)

**Q-2. ANSWER IN SHORT (ANY TEN), (20)**

1. Write about unicellular glands.
2. Classify the glands according to type of secretions they produce.
3. Draw & labeled the diagram of Mammalian skin.
4. Write about epidermal teeth.
5. Write about lips of vertebrate.
6. Draw and labeled the diagram of Premolar tooth.
7. Write about intestine of Amphibians.
8. Explain the structure of pancreas.
9. Draw & labeled the diagram of the Human Liver.
10. Explain the terms hepatic portal and renal portal circulation.
11. Differentiate between arteries and veins.
12. Write about composition of Blood.

Q-3. (a) Describe the types of scales found in Fishes. (5)

(b) Describe the types of beaks in the different Birds. (5)

**OR**

Q-3. (a) Write about the integumentary glands of Mammals. (5)

(b) Describe the contour (Typical) feather with labeled diagram. (5)

Q-4. (a) Describe the comparative anatomy of glands of oral cavity. (7)

(b) Describe the tongue of Amphibians. (3)

**OR**

Q-4. (a) Describe the comparative anatomy of Mammalian teeth. (7)

(b) Describe the tongue of Human. (3)

Q-5. (a) Describe the comparative anatomy of Mammalian intestine with diagram. (6)

(b) Write a note on comparative anatomy of vertebrate Liver. (4)

**OR**

Q-5. (a) Write about comparative anatomy of mammalian stomach. (6)

(b) Describe the mammalian esophagus. (4)

Q-6. Describe the comparative anatomy of three & four chambered heart. (10)

**OR**

Q-6. Describe the structure and comparative anatomy of lymphatic system. (10)

— X —  
②