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SEAT No. \_\_\_\_\_



No. of Printed Pages: 02

Sardar Patel University  
B.Sc Semester-VI, Zoology  
Paper Code-US06CZ00-21  
Title of Paper- Vertebrate

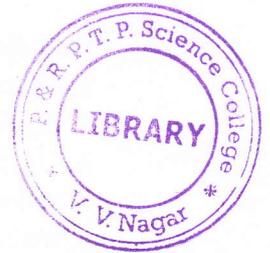
Date: 4/4/22, Monday  
Time- 3:00 to 5:00 pm

Maximum marks -70

**Q1. Multiple choice questions (Attempt all questions)**

10

1. Testis is Present in?  
(a) All Protochordates  
(b) Hemichordata  
(c) Urochordates  
(d) Cephalochordates
2. Wheel organ of *Amphioxus* is a body part of:  
(a) Tail  
(b) Anal fin  
(c) Hind gut part  
(d) none of these
3. Anticoagulant in *Petromyzon* is secreted by;  
(a) Mucous Gland  
(b) Goblet cells  
(c) Salivary gland  
(d) Zymogen cells
4. The body of lung fishes is covered with:  
(a) Cycloid scales  
(b) Ctenoid Scales  
(c) Ganoid Scales  
(d) Placoid Scales
5. Rohu is chiefly:  
(a) Carnivorous  
(b) Herbivorous  
(c) Predator  
(d) Parasitic
6. The age of Reptiles:  
(a) Palaeozoic era  
(b) Carboniferous era  
(c) Mesozoic era  
(d) Archeozoic era
7. The body temperature of birds is;  
(a) Higher than other animal  
(b) Lower than other animal  
(c) Equal to that of animal  
(d) Variable according to climate
8. In Birds gizzard is used for:  
(a) Chewing food  
(b) Grinding  
(c) Mixing food  
(d) Digesting food
9. The external nares in Rabbit is surrounded by:  
(a) Vibrissae  
(b) Hare lip  
(c) Nictating membrane  
(d) Rhinarium
10. The tail in Rabbit serves as:  
(a) Balancing organ  
(b) Sensory organ  
(c) Decorative Structure  
(d) Hearing aid



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(P.T.O.)



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**Q.2 Write true or false and fill in the Blanks:**

1. Lampreys are found only in sea water (True/False)
2. Electric ray (torpedo) is completely scaleless (True/false).
3. Pigeons have little interest in nest building (True /False)
4. The rabbits are Polygamous (True/false)
  
5. Gonads are well developed in Branchiostoma but gonoduct are -----.
6. Elasmobranch fishes have \_\_\_\_\_ scales.
7. Feathers are used in the formation of \_\_\_\_\_.
8. How many Salivary gland found in rabbit \_\_\_\_\_?

**Q3. Short Answer question (attempt only Ten)**

10x2= 20

1. List the three Common Chordates characters.
2. Draw *ammocoete* larva.
3. Classify *Amphioxus*.
4. Define swim bladder.
5. Make a list of Accessory respiratory organs of fishes.
6. Write about uses of fins.
7. What is the significance of one ovary in birds?
8. Write the important characters of Ratitae.
9. Make a list of common flightless birds.
10. Explain how Bats are adapted for an aerial mode of life.
11. Draw Rabbit.
12. Write the function of Vermiform appendix in Rabbit.

**Q4. Long Answer (Attempt any four)**

8x4=32

1. Describe excretory system of *Amphioxus*.
2. Describe the digestive system and feeding in *Petromyzon*.
3. Describe urinogenital system of *Labeo rohita*.
4. Describe accessory respiratory organs of fishes.
5. Discuss birds as glorified reptiles.
6. Describe male reproductive system of Pigeon.
7. Give an account of aquatic adaptation in mammals.
8. Describe female reproductive system of Rabbit.

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