



A Charutar Vidya Mandal's Institution
V.P. & R.P.T.P. SCIENCE COLLEGE
(AUTONOMOUS) (Grant-in-Aid)
Affiliated to Sardar Patel University
VALLABH VIDYANAGAR-388120



Bachelor of Science (Semester 6) Internal Examination - 2026
US06MAZOO02, COMPARATIVE ANATOMY OF CHORDATES

Date: 07/03/2026, SATURDAY
Time: 10:45 A.M to 12:15 P.M

Total marks: 30

Q-1 Multiple choice questions.

(6 Marks)

1. Nails, claws, and hooves are _____ derivatives.
a) Mesodermal b) Dermal c) Epidermal d) Endodermal
2. Placoid scales are structurally similar to
a) Nails b) Teeth c) Hair d) Feathers
3. Oesophagus is modified into crop in
a) Reptiles b) Birds c) Mammals d) Amphibians
4. Typhlosole is found in
a) Amphioxus b) Fish c) Frog d) Birds
5. Fertilization is external in most
a) Reptiles b) Amphibians c) Birds d) Mammals
6. Single blood circulation is seen in
a) Birds b) Amphibians c) Reptiles d) Fishes



Q-2 Describe the types of integumentary glands found in chordates.

(6 Marks)

OR

Q-2 Write a note on types of feathers.

(6 Marks)

Q-3 Explain the comparative anatomy of oesophagus.

(6 Marks)

OR

Q-3 Describe the comparative anatomy of mammalian stomach with diagram.

(6 Marks)

Q-4 Describe the comparative anatomy of testis.

(6 Marks)

OR

Q-4 Write a note on comparative anatomy of mammalian oviduct with diagram.

(6 Marks)

Q-5 Explain the anatomy of three chambered heart found in vertebrates.

(6 Marks)

OR

Q-5 Describe the evolution of aortic arches in lower vertebrates.

(6 Marks)

XXXXXXXXXX

No of printed pages: 01

Supervisor sign.....

Seat No.:



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B.Sc. (Semester -6) Quiz - 2026 US06MAZOO02, Comparative Anatomy of Chordates

Date: 07-03-26, SATURDAY

Time: Maximum 20 minutes

Total marks: 15

Q-1 Fill in the blanks with appropriate answer given in the bracket.

[08]

1. The only skin gland usually present in birds is the _____ gland.[sweat/ uropygial]
2. Ganoid scales are found in primitive bony fishes like _____.[Lepisosteus/Teleost]
3. The spiral valve is found in the intestine of _____ fishes. [Cartilaginous/ Bony]
4. Salivary glands are best developed in _____. [Amphibians/Mammals]
5. Functional ovary in birds is the _____ ovary.[Right / Left]
6. Egg-laying mammals are known as _____. [Monotremes/ Marsupials]
7. The hepatic portal system is present in _____ vertebrates. [Mammals/All]
8. A well-defined heart is absent in _____. [Amphioxus/ Cyclostomes]

Q-2 Whether the following statement is true or false. Write your answer in the box

[07]

1. Sebaceous glands produce sweat. []
2. The alimentary canal of chordates is derived from mesoderm. []
3. Teeth are continuously replaced in reptiles. []
4. Epididymis is a site of sperm maturation and storage. []
5. Placenta is present in all mammals. []
6. AV node acts as the pacemaker of the mammalian heart. []
7. Mammalian RBCs are biconcave and non-nucleated. []