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SEAT No. _____

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[73/A-15]

SARDAR PATEL UNIVERSITY

B.Sc - VI-SEMESTER EXAM-2019

ZOOLOGY, US06CZOO02 (COMPARATIVE ANATOMY OF CHORDATES)

27-3-2019, Wednesday

TIME: 10am to 1pm

Marks: 70

Q-1. MULTIPLE CHOICE QUESTIONS.

(10)

1. The sound producing organ of Bird is known as
(a) Larynx (b) Pharynx (c) Syrinx (d) All of these
2. Swim bladders having close pneumatic duct is known as
(a) Physostomous (b) Protopterus (c) Physoclistus (d) Protochordates
3. Opercular gills are present in
(a) Shark (b) Teleosts (c) Electric ray (d) Sting ray
4. Testosterone is secreted from which type of cells?
(a) Theca interna (b) Theca externa (c) Beta cells (d) Leydig cells
5. Oviduct in vertebrates is modified
(a) Wolffian duct (b) Mullerian duct (c) Inguinal canal (d) Urinary duct
6. Trigeminal nerve numbered as
(a) II (b) III (c) V (d) VII
7. Cerebral hemisphere in Eutherian are connected internally by
(a) Corpus callosum (b) Corpus luteum (c) Corpus albicans (d) All of these
8. Follicular cells of Thyroid gland secrete which hormone?
(a) ACTH (b) Thyroxin (c) Calcitonin (d) Parathormone
9. Oxytocin is synthesis from _____ gland.
(a) Thyroid (b) Adrenal (c) Ovary (d) Pitutary
10. Pancrease is considered as _____ gland.
(a) Endocrine (b) Heterocrine (c) Exocrine (d) None of these

(1)

[P.T.O.]

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

1. Write about phases of respiration.
2. Write about larval gills in Amphibians.
3. Name the functions of swimbladders.
4. Draw & labeled the L.S. of Human kidney.
5. Write a brief note on urinary bladder.
6. Describe the ovary of Amphioxus.
7. Numbered & name the any four cranial nerves.
8. Describe the external ear.
9. Write about taste buds of Human.
10. Write about general account of Thyroid hormone.
11. Enlist the name & locations of endocrine glands.
12. Write about placenta of mammals.

- Q-3. (a) Explain the structure of internal gills with diagram. (6)
(b) Describe the accessory respiratory structures in Chordates. (4)

OR

- Q-3. Describe the comparative anatomy of vertebrate lungs with diagram. (10)

- Q-4. (a) Describe the comparative anatomy of Opisthonephrouse kidney. (7)
(b) Write a note on testes of Birds. (3)

OR

- Q-4. (a) Describe the comparative anatomy of mammalian oviduct. (7)
(b) Write a note on copulatory organ of vertebrates. (3)

- Q-5. Describe the anatomy of Human eye with labeled diagram. (10)

OR

- Q-5. (a) Describe the types of cutaneous receptors with diagram. (7)
(b) Explain the types of internal receptors. (3)

- Q-6. Describe the comparative anatomy of chordates Pituitary gland. (10)

OR

- Q-6. (a) Describe the comparative anatomy of chordates Adrenal gland with diagram. (6)
(b) Write about anatomy & hormone of mammalian testes. (4)