

SEAT No. _____

No. of Printed Pages : 2

[61/A-17]

SARDAR PATEL UNIVERSITY

B.Sc., SEMESTER-V EXAMINATION-2018

ZOOLOGY, US05CZ0004 (ANIMAL PHYSIOLOGY)

DATE: 29-10-2018

TIME: 10am to 1pm

DAY: MONDAY

MARKS: 70

Q-1. MULTIPLE CHOICE QUESTIONS.

(10)

1. Calcium-ion storing tubular system found in skeletal muscle is known as
(a) Sarcolemma (b) Sarcomere (c) Sarcoplasmic reticulum (d) Sarcoplasma
2. In which type of muscle, contraction begins slowly but last for long time?
(a) Endomysium (b) Skeletal (c) Cardiac (d) Smooth
3. Oxygen binding protein found only in muscle fibers is known as
(a) Myoglobin (b) Tropomyosin (c) Haemoglobin (d) All of these
4. Name the V- cranial nerves of Human
(a) Vagus (b) Olfactory (c) Optic (d) Trigeminal
5. The gap, where communication occurs between two neurons is known as
(a) Synapse (b) Synaptic cleft (c) Synaptic vesicles (d) Telodendria
6. The reflex which acquired by past experience or training is known as
(a) Unconditional (b) Tropicaxis (c) Conditional (d) None of these
7. HCL is secreted from which type of stomach cells?
(a) Chief cells (b) Parietal cells (c) Chromaffin cells (d) Mucous cells
8. Lymphatic capillary used for chylomicron absorption in the small intestine is known as
(a) Hepatic vein (b) Gastric artery (c) Lacteal (d) All of these
9. Cretinism caused by deficiency of which hormone?
(a) Parathormone (b) Thyroid (c) Epinephrine (d) GH
10. Glucocorticoids is synthesis from _____ gland.
(a) Adrenal (b) Pitutary (c) Thyroid (d) Pancreas

(1)

[P.T.O.]

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

1. Name the proteins present in skeletal muscle fiber.
 2. Write about functions of muscular tissue in brief.
 3. Write about the anaerobic respiration in muscle tissue.
 4. Write about the functions of the cerebellum of Human brain.
 5. Draw & labeled the diagram of Reflex arc.
 6. Write about the functions of Vagus nerve.
 7. Draw & labeled the diagram of T.S. of Human Pancrease.
 8. Write about composition of gastric juice.
 9. Explain the actions of defecation.
 10. Comment upon the Exophthalmic Goiter.
 11. Write about the functions of parathyroid hormone.
 12. Write about functions of aldosterone hormone
- Q-3. (a) Describe the microscopic structure of skeletal muscle fiber. (7)
(b) Write about two types of smooth muscle tissue. (3)

OR

- Q-3. (a) Explain the contraction & relaxation of Skeletal muscles by sliding mechanism. (7)
(b) Write about the role of Creatine Phosphate in muscle fiber. (3)
- Q-4. (a) Describe the microscopic structure of Neuron with labeled diagram. (6)
(b) Write about structure and functions of hind brain. (4)

OR

- Q-4. (a) Write about functions of Sympathetic & Parasympathetic nervous system. (6)
(b) Write about any four neurotransmitters in detailed. (4)
- Q-5. (a) Write a note on secretion, composition & functions of saliva. (6)
(b) Explain the phases of secretion and control of gastric juice. (4)

OR

- Q-5. (a) Write a note on secretion, composition & functions of Bile. (6)
(b) Explain the absorption of Carbohydrates in GI tract. (4)
- Q-6. Explain the action of lipid soluble & water soluble hormones. (10)

OR

- Q-6. Describe the functions & abnormalities of Pituitary hormones. (10)