

SEAT No. _____

No. of Printed Pages : 2

[114]

SARDAR PATEL UNIVERSITY

B.Sc., FIFTH SEMESTER (NC), DECEMBER -2020

ZOOLOGY, US05CZOO04 (PHYSIOLOGY) (Old Course)

DATE: 29-12-2020

TIME: 2pm to 4pm

DAY: TUESDAY

MARKS: 70

Q-1. MULTIPLE CHOICE QUESTIONS.

(10)

1. Name the sheath of connective tissue that wraps around individual skeletal muscle fiber.
(a) Endomysium (b) Epimysium (c) Perimysium (d) Tendon
2. Which type of muscle fiber is located in heart?
(a) Skeletal (b) Cardiac (c) Smooth (d) All of these
3. In which band of a skeletal muscle, thin filaments are located?
(a) H- Zone (b) I-band (c) A- band (d) All of these
4. Name the X- cranial nerves of Human
(a) Vagus (b) Olfactory (c) Optic (d) Trigeminal
5. The reflex which acquired by past experience or training is known as
(a) Conditional (b) Chemotaxis (c) Unconditional (d) None of these
6. The vestigial organ containing a large amount of lymphatic tissue is
(a) Gall bladder (b) Colon (c) Appendix (d) All of these
7. Human liver made up of how many lobe?
(a) Two (b) Three (c) Four (d) Five
8. Pepsinogen is secreted from which type of stomach cells
(a) Parietal cells (b) Chief cells (c) Chromaffin cells (d) Mucous cells
9. Adrenaline hormone is synthesis from
(a) Parathyroid gland (b) Adrenal gland (c) Thyroid gland (d) Pitutary gland
10. Dwarfism caused by deficiency of which hormone?
(a) Growth hormone (b) Thyroid (c) Epinephrine (d) FSH

[1]

(P.T.O.)

Q-2. FILL IN THE BLANKS AND TRUE OR FALSE.

(8)

1. Intestine having _____ type of muscle fiber.
2. Ilets of Langerhan's is a part of _____ gland.
3. Parathormone hormone is synthesis from _____ gland.
4. Nerve fiber having many processes is known as _____ nerve fiber.
5. Myosin & Actin protein acts as a contractile protein. (True or False)
6. Transmission of nerve impulses on myelinated nerve fiber is slower than non-myelinated. (True or False)
7. Bile is synthesis from Pancreas. (True or False)
8. Calcitonin is responsible for lowering the calcium level in the blood. (True or False)

Q-3. ANSWER IN SHORT (ANY TEN).

(20)

1. Write about the properties of muscular tissue.
2. Write about differences of smooth & Cardiac muscular fiber.
3. Draw & labeled the diagram of skeletal muscle fiber.
4. Write about name of any four cranial nerves with their number.
5. Explain the types of nerve fiber according to their morphological structure.
6. Write about acetylcholine.
7. Explain the role of HCL in human stomach.
8. Write about functions of pancreatic juice.
9. Draw & labeled the diagram of T.S. of liver.
10. Write about role of FSH in male & female.
11. Write about functions of Thyroid gland.
12. Enlist the name of hormones secreted from Pitutary glands.

Q-4. ANSWER IN DETAILED. (ATTEMPT ANY 4)

(4× 8 = 32)

1. Explain the skeletal muscle contraction in detailed.
2. Describe the microscopic structure & contraction of smooth muscle fibers.
3. Write a note on Human fore and mid brain with labeled diagram.
4. Describe the structure and mechanism of reflex arch.
5. Describe the composition and functions of intestinal juice.
6. Write a note on secretion, composition and functions of Human saliva.
7. Explain the action of water soluble hormone with diagram.
8. Describe the hormones and their functions secreted from Adrenal gland.

—————X—————