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SARDAR PATEL UNIVERSITY

B.Sc., Vth - SEMESTER EXAM, NOVEMBER-2022 ZOOLOGY, US05CZOO22 (PHYSIOLOGY)

D	ATE: 11/11/2022,	FRIDAY	TIME: 10am to 1pm	MARKS: 70			
Q-1.	MULTIPLE CHOIC	E QUESTIONS.		(10)			
1.	Which cell type help	os to repair injured	d muscle fibers?	•			
	(a) Ganglionic cell	(b) Satellite cell	(c) Myotubule cell	(d) Myofilament			
2.	Which of the following	ing muscle gets in	ito fatigue very early?				
	(a) Cardiac muscle	(b) Smooth muse	cle (c) Skeletal muscle	(d) All of these			
3.	Which of the follow	ing ion is necessa	ry for the contraction o	f muscles?			
	(a) Mg ⁺²	(b) Na⁺	(c) K ⁺	(d) None of these			
4.	neuron tra	ansmits signals fro	om the PNS to the cent	ral nervous system.			
	(a) Interneuron	(b) Sensory	(c) Motor	(d) Ganglion			
5.	What is the basic u	init of the nervous	system?				
	(a) Meninges	(b) Glial cell	(c) Neuron	(d) Cerebrospinal fluid			
6.	An involuntary res	ponse by the nerv	ous system to a stimul	us is known as			
	(a) Reflex	(b) Smooth mus	scle (c) Motor response	e (d) Synapse			
7.	Which of the follo (a) Neuroglia	owing helps in ma (b) Aqueous hu	aintaining the shape o umor(c) Vitreous humo	f the eye? or (d) Perikaryon			
8.	Which hormone is	s responsible for r	eabsorption of water?				
	(a)GH	(b) Progesteron	(c) MSH	(d) ADH			
9.	" C. L. Contamide and aldestorane causes						
	(a) Dwarfism	(b) Cretinism	(c) Diabetes	(d) Addison's diseases			
10.	Progesterone hor	mone is synthesis	s from	•			
			cals (c) Beta cells	(d) Corpus albicans			

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(P.T.O.)

Q-2.	ANSWER IN SHORT. (ANY TEN)	(20)
1.	Name the proteins present in skeletal muscle fiber.	
2.	Explain the term multi unit and unitary of smooth muscle fiber.	
3.	Name the properties of muscle fiber.	
4.	Write about neuroglia found in the nervous system.	
5.	Draw & labeled the diagram of Human brain.	
6.	Write about functions of cerebrospinal fluid (CSF).	
7.	Draw & labeled the diagram of Human eye.	
8.	Name the types of plexuses of spinal nerves.	
9.	Write about the functions of sympathetic nervous system.	
10.	Define the term tropic hormone and name the pituitary tropins.	
11.	Explain the role of hormone receptors.	
12.	Write a brief note on insulin hormone.	
Q-3.	(a) Explain the production of ATP by energy molecule in skeletal muscles.(b) Describe the structure of cardiac muscle fiber.	(6) (4)
Q-3.	(a) Describe the microscopic structure of skeletal muscle fiber. (b) Explain the neuromuscular junction mechanism.	(6) (4)
Q-4.	(a) Explain the impulse transmission on Non-myelinated nerve fiber.(b) Write a note on types of neurotransmitters.	(5) (5)
Q-4.	(a) Describe the structure of nerve fiber. (b) Write notes on any five cranial nerves.	(5) (5)
Q-5.	(a) Explain the structure & functions of Parasympathetic nervous system.(b) Explain the mechanism of hearing in Human.OR	(6) (4)
Q-5.	(a)Describe the structure and physiology of olfaction. (b) Describe the structure of reflex arc.	(6) (4)
Q-6.	(a) Explain the action of lipid soluble hormones.(b) Write about hormones and their functions secreted from Neurohypophysis.	(5) (5)
Q-6.	(a) Explain the process of synthesis and secretion of thyroid hormones.	(5)
<u> </u>	(b) Describe the functions and abnormalities of Parathyroid gland.	(5)
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