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SEAT NO:

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SARDAR PATEL UNIVERSITY **B.Sc., V-SEMESTER EXAM, NOVEMBER-2021** ZOOLOGY, US05CZOO22 (PHYSIOLOGY)

DATE: 24/11/2021, WEDNESDAY TIME: 3pm to 5pm



MARKS: 70

Q-1.	MULTIPLE CHOICE	QUESTIONS.		(10)		
1.	The smooth muscle	es are found in walls	of efficiency teom			
	(a) Urinary bladder	(b) Blood vessels	(c)Alimentary cana	(d)All of these		
2.	Which of the follow	ing is the contractile	protein of a muscle?	PLASWERA SO		
	(a) Tubulin	(b) Myosin	(c) Tropomyosin	(d) All of these		
3.	Calcium-ion storing tubular system found in skeletal muscle is known as					
	(a) Sarcoplasma	(b) Sarcomere (c)	Sarcoplasmic reticu	lum (d) Sarcolema		
4.	In our body involunt (a) Hindbrain	tary actions are cont (b) Forebrain	trolled by medulla in (c) Spinal Cord	(d) Midbrain		
5.	The white fatty subs	he white fatty substance that coats axons to increase signal speed is				
	(a) Myelin	(b) Microfibrils	(c) Dendrites	(d) Adipocytes		
6.	How do neurons co	mmunicate with one	another?			
	(a) Electrically	(b) Chemically	(c) (a) & (b) both	(d) None of these		
7.	Which one of the fo	llowing involved thou	racic & lumber region	of ANS?		
	(a) Sympathetic	(b) Parasympatheti	c(c) Brain	(d) All of these		
8.	External ear is the	characteristics of				
	(a) Amphibians	(b) Reptiles	(c) Aves	(d) Mammals		
9.	Which one of the fol	llowing glands is a h	eterocrine gland?			
	(a)Liver	(b) Pancreas	(c) Ovary	(d) Thyroid		
10.	Which hormone is re	esponsible for maint	ain calcium & phosp	hate level in the blood?		
	(a) Adrenalin	(b) Estrogen	(c) T ₃ & T ₄	(d) Parathormone		

(P.T.O.)

Q-2. F	ILL IN THE BLANKS AND TRUE OR FALSE. (8)		
1.	Intercalated discs are present in muscle fiber.		
2.	The cells of nervous tissue that are not neurons but that assist neurons are called		
3.	The ganglia of the division are closer to the spinal cord.		
4.	Glucocorticoids is synthesis from gland.		
5.	A cord of connective tissue that attaches skeletal muscle to the bone is known as sarcomere. (True or False)		
6.	The X- cranial nerve is known as vagus nerve. (True or False)		
7.	The inner most coat of the Human eyeball is known as sclera. (True or False)		
8.	Progesterone hormone is synthesis from Corpus albicans. (True or False)		
Q-3. A	ANSWER IN SHORT (ANY TEN). (20)		
1.	Name the properties of muscle fiber.		
2.	Write about the significance of creatine phosphate found in muscle fiber.		
3.	Write about oxygen debt in muscle fiber.		
4.	Enlist the any four numbers and names of the cranial nerves.		
5.	Write about myelinated nerve fiber. Write about acetyl choline neurotransmiter.		
6.	1/2/		
7.	Draw & labeled the diagram of reflex arc. Enlist the name of taste buds present in Tonque.		
8.			
9.	Name the types of plexuses of spinal nerves. ** ** ** ** ** ** ** ** **		
10.	Explain the term feedback control with example. Give the outline of chemical classification of hormones.		
11.	Draw & labeled the T.S. of Adrenal gland.		
12.	COMPTA walnes violent 1 S. violanti Berlanni animalist edita esa daldi.		
Q-4.	ANSWER IN DETAIL. (ANY FOUR) (32)		
American .	Describe the microscopic structure & contraction of smooth muscle fiber with lab		
	diagram.		
2.	Explain the contraction & relaxation of Skeletal muscles by sliding mechanism.		
3.	Describe the microscopic structure of nerve fiber with labeled diagram.		
4.	Describe the structure and functions of Human fore brain & mid brain.		
5.	Explain the structure of Human eye with labeled diagram.		
6.	Explain the structure & functions of Sympathetic nervous system. Explain the action of water soluble hormones.		
7.	Cambridge of the action of the control of the contr		