Q.P. Code: 126007 Reg. No.:.....

First Professional BUMS Degree Supplementary Examinations December 2024

Munafeul Aza – Paper I

		Widilaledi Az	•		
		(2022 Sc	cheme)		
Tin	ne: 3 hrs	•	,	Max Marks: 100	
	answers • Indicate to	he question number corr	gibly • Do not leave any rectly for the answer in the	e margin space	
	•		Leave sufficient space be		
	Multiple Choice Que			(20x1=20)	
	Answers to MCQ que t two writing sheets (ie			n continuously on the	
	•		-	sting membrane potentia	
	of a typical neuron	g		9 р	
	a) Sodium	b) Potassium	c) Calcium	d) Chloride	
ii.	Homeostasis is prima	,	,	, -	
	a) Hormonal control	,	b) Neural control		
	c) Feedback mechan	isms	,	d) All of the above	
iii.	What is the typical duration of an action potential in a neuron				
	a) 1-2 milliseconds		b) 10-15 milliseco	b) 10-15 milliseconds	
	c) 100-200 milliseconds		d) 1 second		
iv.	What is the functional	l unit of a skeletal m	nuscle fiber		
	a) Myofibril	b) Sarcomere	c) Myofilament	d) Fascicle	
٧.	Which of the following factors would most likely cause a decrease in blood pH				
	a) Hyperventilation	b) Diarrhea	c) Dehydration	d) Metabolic acidosis	
vi.	Cellular respiration primarily occurs in which organelle				
	a) Nucleus	b) Ribosomes	c) Mitochondrion	d) Golgi apparatus	
vii.	Which type of epithelial tissue is specialized for absorption and secretion, and is				
	typically found in the intestine				
	a) Simple squamous		b) Stratified squamous		
	c) Simple columnar		d) Transitional epithelium		
viii.	Which connective tiss	sue type acts as a s	hock absorber and r	educes friction in joints	
	a) Bone	b) Elastic cartilage	e c) Fibrocartilage	d) Hyaline cartilage	
ix.	Which muscle type is non-striated and primarily involved in involuntary movements				
	a) Cardiac muscle		b) Smooth muscle	b) Smooth muscle	
	c) Skeletal muscle		d) Both cardiac and smooth muscle		
Χ.	What is the resting m	•	• •		
	a) +40 mV	b) 0 mV	c) -70 mV	d) -90 mV	
χi.	, , , ,			gocytosis	
	a) Neutrophils	b) Eosinophils		d) Lymphocytes	
xii.	Which type of plasma protein increases significantly during acute inflammation				
	a) Fibrinogen	b) Albumin	c) Transferrin	d) C-reactive protein	
xiii.	What is the average				
	a) 4-5 µm	b) 7-8 μm	c)10-12 µm	d)12-15 μm	

XIV.	Which of the following	g is a significant sou	rce of energy for RB0	Cs	
	a) Fatty acids	b) Glucose	c) Amino acids	d) None of the above	
XV.	Which organ is prima	rily responsible for t	he production of eryth	nropoietin	
	a) Liver	b) Kidney	c) Spleen	d) Bone marrow	
xvi.	The normal range of	oacked cell volume	for adult males is app	proximately:	
	a) 20-30 %	b) 35-40 %	c) 40-45 %	d) 55-65 %	
xvii.	The iron from degrade converted into:	ed hemoglobin is re	cycled by the body, a	nd the heme portion is	
	a) Urea	b) Creatinine	c) Uric acid	d) Bilirubin	
xviii.	Which white blood ce	,	sible for the release	of histamine and	
	heparin during allergi	c and inflammatory	response		
	a) Neutrophils	b) Basophils	c) Eosinophils	d) Lymphocytes	
xix.	Which immunoglobin	is most commonly i	nvolved in the respor	se to a viral infection	
	a) IgM	b) IgG	c) IgA	d) lgE	
XX.	The lifespan of a plate	elet in the bloodstrea	am is typically around	d	
	a) 1-2 days	b) 3-5 days	c) 7-10 days	d) 15-20 days	
Short Answer Questions (8x					
Sh	ort Answer Questions	5		(8x5=40)	
	ort Answer Questions Describe secondary ac		s cell membrane.	(8x5=40)	
2.	•	ctive transport acros	s cell membrane.	(8x5=40)	
2. 3.	Describe secondary ac	ctive transport acros aemia		(8x5=40)	
2. 3. 4.	Describe secondary ac Define and classify an	ctive transport acros aemia hysiology of platele		(8x5=40)	
2. 3. 4. 5.	Describe secondary ac Define and classify an Describe the applied p	ctive transport acros aemia hysiology of platele		(8x5=40)	
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2. 3. 4. 5. 6. 7.	Describe secondary ac Define and classify and Describe the applied p Describe the functions Describe ECG grid Define heart block and	ctive transport acros aemia hysiology of platele of spleen l explain its classific es, functions and dai	ts ation ly requirement of Vita	,	
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