

MV-9003-9005

Seat No.

Second Year B. Physiotherapy Examination January - 2018

	Pa	thology & Microbiology & Biochemistry					
Tin	ne : 8	B Hours] [Total Marks :	100				
Ins	struct	tions: (1) Write section-I and section-II in separate and sheet. (2) Draw figures wherever necessary. (3) Figures on right indicate full marks. SECTION - I (Pathology & Microbiology)	swer				
1	Answer any two :						
	(a)	Define necrosis and discuss types of necrosis in brief.					
	(b)	Describe Morphology, Pathogenicity and Laboratory diagnosis of Staphylococcus aureus.					
	(c)	Define granuloma and describe, three granulomatous inflammations.					
2	Wri	Write short notes on any two:					
	(a)	Hypersensitivity					
	(b)	Describe factors influencing wound healing.					
	(c)	Describe Life cycle and Pathogenicity of Ascariasis Lumbricoides.					
3	Write answers in 2-3 sentences:						
	(a)	Difference between Exotoxin and Endotoxin					
	(b)	Name 4 Motile bacteria					
	(c)	Define Antigen					
	(d)	Describe sjogren's syndrome.					
	(e)	Name four signs of acute inflammation.					

(f) Name four cellular adaptations.

4	Encircle most appropriate (Single) answer all Compulsory:						
	(1)	The	organ of adhesion in	bacte	eria is		
		(a)	Flagella	(b)	Fimbriae		
		(c)	Capsule	(d)	Mesosomes		
	(2)	The is	The earliest immunoglobulin to be synthesized by fetus is				
		(a)	Ig G	(b)	Ig E		
		(c)	Ig M	(d)	Ig A		
	(3)	Rice	watery stool is prese	ent ii	n		
		(a)	Vibrio Cholerae	(b)	Mycoplasma		
		(c)	Leptospira	(d)	Listeria		
	(4)	Amo	ong these which one i	s pro	otozoa?		
		(a)	Ascaris lumbricoides	(b)	Plasmodium		
		(c)	Tinea solium	(d)	W.bancrofti		
	(5)	Coa	gulase test is positive	in			
		(a)	Staphylococcus aureu	s			
		(b)	Streptococcus				
		(c)	E. coli				
		(d)	Pseudomonas				
	(6)	Out of the following which is a benign tumour?					
		(a)	Fibroadenoma	(b)	Melanoma		
		(c)	Lymphoma	(d)	Sarcoma		
	(7)	Out of the following which is a chromosomal disorder?					
		(a)	HIV	(b)	Down's syndrome		
		(c)	Silicosis	(d)	Beriberi		
	(8)		of the followinig wrder?	hich	is not a nutritional		
		(a)	Scurvy	(b)	Rickets		
		(c)	Pellagra	(d)	Gaucher disease		
	(9)	All	are endogenous pigme	ent e	xcept,		
		(a)	Melanin	(b)	Lipofuscin		
		(c)	Porphyrins	(d)	Anthracotic pigment		
	(10)	All	are autoimmune disor	der e	except,		
		(a)	SLE	(b)	Wilson's disease		
		(c)	Grave's disease	(d)	Scleroderma		
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SECTION - II (Biochemistry)

5	Long	Long Essays : (any two) 2>				
	(1)	Polysaccharides-Types and functions				
	(2)	Electron transport chain and Oxidative Phosphorylation.				
	(3)	Sickle Cell anemia and Thalassemia				
6	Exp	explain the following: (any two) 2×5=				
	(1)	Ketone body metabolism				
	(2)	Prostaglandins				
	(3)	Iron Metabolism				
7	7 Write Short Notes : (any five) 5×2=3 (1) Km value and its importance (2) Importance of Glycated Hemoglobin					
	(3) Transport Proteins					
	(4) LDL-Cholesterol					
	(5) Creatinine Importance					
	(6)	Glycine functions				
8	Multiple Choice Questions (Write correct response 10×1= in Answer Book)					
	(1) Which Phospholipid is act as a surfactant?					
		(a) Cephalin (b) Lecithin				
		(c) Plasmalogen (d) Sphingolipid				
	(2) Which carbohydrate is used to measure Glomerular Filtration Rate?					
		(a) Dextran (b) Chitin				
		(c) Inulin (d) Cellulose				
	(3) Fetal Hemoglobin is made up of which 2 globin chain?					
		(a) $\alpha 2\beta 2$ (b) $\alpha 2\gamma 2$				
		(c) $\alpha 2\delta 2$ (d) $\alpha 2\zeta 2$				
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(4)	Which lipoprotein carries fat from Intestine?						
	(a)	VLDL	(b)	LDL			
	(c)	HDL	(d)	Chylomicron			
(5)	Exa	mple of uncoupler is					
	(a)	Thermogenin	(b)	Cyanide			
	(c)	Barbiturates	(d)	Oligomycin			
(6)	Pros	stacyclin acts as a					
	(a)	Vasoconstrictor					
	(b)	Platelet aggregrator					
	(c)	Platelet aggregation	itor				
	(d)	d) Anaphylactic agent					
(7) Methemoglobinemia is characterized by				erized by			
	(a)	Ferrous form of iron					
	(b)	Carry oxygen					
	(c)	Reddish discoloration	of sl	xin			
	(d)	Ferric form of Iron					
(8)	Which Immunoglobulin can cross the placental barrie						
	(a)	Immunoglobulin A	(b)	Immunoglobulin E			
	(c)	Immunoglobulin G	(d)	Immunoglobulin M			
(9)	Which Protein maintains colloidal osmotic pressure?						
	(a)	Globulin	(b)	Albumin			
	(c)	Transferrin	(d)	Ceruloplasmin			
(10)) In which form Iron is absorbed?						
	(a)	Ferrous	(b)	Ferric form			
	(c)	Ferritin	(d)	Transferrin			

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