FirstRanker.com MBBSolBiochemistry Paper 1: Part 1: ABVMUUP Range Code: 2111130003

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Q1.	Discuss the amphibolic role of TCA cycle in the integration of metabolism. Highlight the source and utilization of acetyl CoA. Explain the physiological regulation of TCA cycle. Add a note of energy generation in this cycle. (20)			
Q2.	Write briefly on:	(4X5)		
	(a) Therapeutic uses of prostaglandins			
	(b) Phenylketonuria and Alkaptonuria			
	(c) Role of liver in integration of metabolism(d) Gout			
	(d) Goul			
Q3.	Ten multiple choice questions:	(1 mark each)		
a.,	An enzyme required for the synthesis of keto	one bodies as well as cholesterol is:		
	A) Acetyl CoA carboxylase	B) HMG CoA synthetase		
	(C) HMG CoA reductase	D) HMG CoA lyase		
b.	The physiological uncoupler of oxidative pho-	osphorylation is:		
3	<i>/</i>	C) Thermogenin D)Valinomycin		
c.	NH ₃ is removed from brain mainly by:			
	A) Urea formation	B) Uric acid production		
	C) Glutathion	D) Glutamine formation		
d.	Which urine test will be positive for patient v	with maple syrup urine disease?		
-	A) Dinitophenyl hydrazine test	B) Benedict's test		
	C) Ferric chloride test	D) Cyanide nitrprusside test		
e.	Homogentisic acid is excreted in urine in:			
	A) Phenylketonuria	B) Maple syrup urine disease		
	C) Tyrosinosis	Alkaptonuria		
f. Refsum's disease results from a defect in the following pathway:				
	A) Alpha-oxidation of fatty acids	 B) Beta-oxidation of fatty acids 		
	C) Gamma-oxidation of fatty acids	 D) Omega-oxidation of fatty acids 		
	1			
g.	Niacin deficiency can occur in:	B) Phenylketonuria		
	A) Hartnup's disease C) Alkaptonuria	D) None of these		
		_		
h.	Gold standard marker for GFR (glomerular	filtration rate) estimation is:		
	A) Urea clearence	B) Cystatin clearence		
	C) Creatinine clearence	D) Inulin clearence		
	The active transport system for hepatic uptal	ke of bilirubin is congenitally defective in		
i.	The active transport system for nepatic upta	B) Crigler-Najjar syndrome		
	A) Gilbert's disease	D) Dubin-Johnson syndrome		
	C) Rotor's syndrome			
	Activated lecithin cholesterol acyl transferas	se is essential for the conversion of:		
j.	A) Nascent LDL into LDL	B) Mascelli TIDE IIIO TIDE		
1	C) HDL2 into HDL3	D) HDL3 into HDL2		
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Q1.	Discuss the mechanism of action of enzymes and the types of enzyme inhibition. Explain				
	how enzymes have been used for therapeutics and	diagnostics.	(20)		
Q2.	Write briefly on:	a Maria			
	(a) Glycosaminoglycans		(4X5)		
	(b) Lysosomal storage diseases				
	(c) Wilson's disease				
	(d) Secondary structure of protein				
Q3.	Ten multiple choice questions:	*	(1		
	The short questions.		(1 mark each)		
a.	In case of competitive enzyme inhibition				
	A) V _{max} increases while Km remains the same				
	B) V _{max} decreases while Km remains the same				
	C) V _{max} remains the same while Km increases	41.			
	D) V _{max} remains the same while Km decreases				
b.	Monosaccharides other than Glucose and Galactose are absorbed by:				
	A) Carrier-mediated diffusion B) Passive diffusion				
	C) Active transport D) Secondary active transport				
c.	Which one of the fallowing is	,	amy detive transport		
	Which one of the following is a phospholipid? A) Prostaglandins B) Cerebroside C) C	7	· market		
	A) Prostaglandins B) Cerebroside C) C	Cholesterol	D) Lecithin		
d.	The pentose sugar mainly present in the heart tissue	is:			
	A) Lyxose B) Ribose C) Ar		D) Xylose		
			D) Mylose		
e.	The most effective blood buffer is:				
	A) Citric acid buffer C) Phosphate buffer	B) Ca	rbonic acid buffer		
	C) Phosphate buffer D) Glutamate buffer				
f.	Acrodermatitis enteropathica is due to defective absorber	orption of:			
	A) Manganese B) Molybdenum	C) Iodine	D) Zinc		
σ	Which one of the following contains copper?				
g.	A) Ceruloplasmin B) Albumin C) Glutathione	peroxidase	D) Calcitonin		
			-, carettoffff		
h.	Fluoride ions in grey capped vacutainer inhibits	/			
		B) Hexokina:			
· C) Lactate dehydrogenase	D) Pyruvate (dehydrogenase		
	Which of the following has the lowest concentration of	of cholesterol	9		
	the following has the lowest concentration of	or cholesterol	E .		

C) Are apolipoproteins 29 Jan 2022

A) Principally carry cholesterol

B) Are synthesized in small intestine D) Are the smallest of lipoproteins