	ii !		blocher
Duratio	or: 3 Hrs	Total marks: 75	
N.B.: 1.	All questions are compulsory		
2.	Figures to right indicate full marks		
Q. 1	questions.	tiple choice-based	20
1	The functional unit of the enzyme is known as	·	
a	n - it da again		
b			
c	Chiroenzyme		
d	Monomeric enzyme		
2		'oA in the first step.	
a			
b			
	Yumarate		
d			
3	Which of these contributes the nitrogen atom for the area cycle?	e formation of urea in	
a	aspartate		
	glutamate		
c			
d	일은 전로 교통을 <b>하는 것이 있다. 그는 사</b> 이를 보고 있는 것이 되었다면 하는 것이 되었다. 그는 것이 이 중에 가장 살아 있는 것이 없는 것이 되었다.		
4	Example of xanthine oxidase inhibitor is		
a			
b			
c			
d	[2] 기본 (17일은 보기를 잃으면 하면 하는 사람이 되었다. 그 사람이 되었다. 그 사람이 되었다. 그 사람이 되었다.		
	is an enzyme of purine salvage pathway ar	nd its defect causes Lesch-	
5	Nyhan syndrome.		
a			
b			
C			
d	Additional dealimase		
6	is C-4 epimer of Glucose.		
a	1 (Galactose		
b	Mannose		
c			
d			

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Paper / Suglist Code: 65813 / Biochemist / is a non- educi g accharide. Maltose Lactosc Sucrose Isoma'iose serves as star codon a decides for amino acid methioning in trans ati 3 un - 1 a UAG b UAA c AUG d UGA The process of change in operal notation from dextrorotatory (+) to leverot ory (-) is referred to as a Mutarotation b Spimerization c Racemization d Inversion 10 Lipase enzyme belongs to \_\_\_\_\_class according to IUB. a Oxidoreductase b Transferase c Hydrc'ase d Lyase

is the link between rea cycle and TCA Cycle.

- a alpha keto glutarate
- b succinate
- c Fumarate
- d Citrate

is the amino acid containing Indole group.

- a Leucine
- b Tryptophan
- c Histidine
- d Lysine

13 Gluconeogenesis takes place in\_

- a Cytoplasm
- b cytoplasm & Mitochondria
- c Mitochondria
- d Endoplasmic reticulum

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1	is an alternative pathway to glycolysis for oxidation of Glucose
	a Pentose Phosphate Pathway
	b Cori cycle
	c Glucose alanine cycle
	d Gluconeogenesis
1	5 The number of ATP molecules formed by Beta oxidation of one molecule of
	Palmitic acid are
	a 126
	b 106.
	c 135.
	1 108"
10	Sucrose on hydrolysis gives
	Glucose & Fructose
t	
(	Fructose & fructose
d	Glucose and Galactose
	A Series male of acetyl CoA by TCA cycle
17	
	is·
a	8
b	
C	
d	
18	The example of Saturated fatty acid
a	
b	Linolenic acid
C	Linoleic acid
d	Oleic acid
19	Complexis the site of oxidative Phosphorylation.
a	II - Control of the c
b	
c	V
d	IV
	, de la companya de l
20	is the regulatory enzyme in glycolysis.
a	Phosphofructokinase
b	Enolase
	Glucose-1,6 bisphosphate
d	aldolase

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Q. 2 A	Ans	wer any two questions.	20
a	i)	Discuss enzyme inhibition with respect to Michealis plot along with - utable examples.	5
	ii)	Describe the reactions catalysed by FAS complex in De Nova synt asis of fatty acid	5
b	i) ii)	Give an outline of Kreb's cycle. Explain the term glycogenesis.  Write a note on Glycogenolysis. Draw the structure of cholesterol.	5
c	i)	Explain in brief the steps involved in prokaryotic replication	5
		Discuss the salvage pathway for purines. Write the reaction involved is conversion of UTP to CTP.	5
Q. 2 B	Ansv	ver any seven questions	35
	i)	Explain the formation of ketone bodies	
	ii)	Classify carbohydrates based on their structure. Give structure of lactose.	
	iii)	Write a note on carnitine shuttle. Explain the energetics for beta oxidation of Palmitic acid	
	iv)	Give an outline of Urea cycle and give the linkage of Urea cycle with TCA cycle.	
	v)	Discuss the synthesis of AMP and GMP from IMP.	
	vi)	Enlist the component of ETC. Explain oxidative and substrate level phosphorylation.	
	vii)	Discuss Cori cycle and Glucose -alanine cycle w.r.t reactions involved	
	viii)	Describe the Payoff phase of Embden Meyerhof Pathway.	
	ix)	Describe the steps involved in replication of prokaryotes witi: a neat labelled diagram.	

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