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Time: 3 INSTRUC  1. SEC each 2. SEC has 3. SEC	Subject ( M.Co Hrs. TIONS TO CANDIDATES : TION-A is COMPULSORY con	& Onwards) (Sem2 HEMISTRY Code: BP-203T ode: 74969 sisting of TEN questions stions carrying TEN man	Max. Marks: 75 carrying TWO marks rks each and student							
to attempt any SEVEN questions.										
SECTION-A										
Q1. An	swer briefly :	FO								
a)	a) Amino acid residues present in protein are amino acids.									
	i.α ii.β	iii. ε iv.δ								
	6	The same of the sa								
b)	Formation of cyclic structure of	f glucose from open chain	structure is an example							
	i. Nucleophilic addition ii. Formation of hemi-acetal									
	iii. Formation of acetal	iv. i and ii								
c)	Sphingomylein is a derivative of									
	i. Sphingosine ii. Ceramide	iii. Phosphotidic acid	iv. i and ii.							
d)	For $C_{\alpha}$ -C bond in backbone of protein, the bond angle resulting from rotation at $C_{\alpha}$ is labeled as									
	і, Ф іі, Ψ	ііі. Ө	iv. i and ii both							
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e)	The successive nucleotides in DNA are linked through bridge.						
	i.	Phosphodiester	ii. Amide	iii.	Glycosidic	iv. None of	these
f)	transports free fatty acid from cytosol to mitochondria.						
	i.	Carnitine shuttl	le	ii.	Citrate shuttle		
	iii.	Both i and ii		iv.	Neither i nor ii		
g)	ΑΊ	TP is					
	i.	Nucleotide					
	ii. Energy link between anabolism and catabolism						
	iii.	Hydrolysed wit	th positive ΔG		offi		
	iv.	All of the above	e O	Je.	, . · · ·		
h)		is an e	ssential amino ac	id.			
	i.	Lysine	ii. Tyrosine	iii.	Glycine	iv. Alanine	
i)	Transfer of amino acid to a keto acid is known as						
	i.	Transamination	1	ii.	Deamination		
	iii.	Transdeaminati	ion	iv.	i and iii both.		
j)	Myocardial infarction can be diagnosed by isoenzyme of						
	i.	LDH	ii. ALP	iii.	SGOT	iv. ACP	
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## SECTION-B

- Q2 Give outline for gluconeogenesis. Explain its biochemical significance.
- Q3 Describe the de novo synthesis of pyrimidine nucleotides. Comment on hyperuricemia.
- Q4 Give IUB system of enzyme classification. Discuss the two diagnostic applications of isoenzymes citing suitable examples.

# SECTION-C

- Q5 Explain various types of stereoisomerism present in monosaccharides.
- Q6 Explain the mechanism of oxidative phosphorylation.
- Q7 Describe the various steps involved in β-oxidation.
- Q8 Describe biosynthesis of catecholamines from tyrosine catabolism.
- Q9 Discuss the biochemical causes of jaundice.
- Q10 Describe reactions of Kreb-Henseleit cycle.
- Q11 Describe post transcriptional modifications in primary transcripts of mRNA.
- Q12 Give outline for the conversion of cholesterol to adrenal cortex hormone.
- Q13 Give structure and biochemical significance of co-enzymes derived from Vitamin B2.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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