Paper / Subject Code: 65102 / Biochemistry-II

QP Code: 27947

Total Marks: 70 (3 hours)

	N.B.: All questions are compulsory	, 4. E.
1. An	swer the following	
a)	Draw the structure of GMP	
b)	Enlist the components of ETC	1
	Name the shuttle which transports reducing equivalent from cytosol to	
,	mitochondrial matrix	001
d)	Give the net ATP yield after oxidation of palmitic acid	
	Name the stop codon	\$ 65° 1
f)	Name two drugs which inhibits HMG CoA reductase	2
g)	Give two roles of Pentose phosphate pathway	2
h)	Name two drugs inhibiting protein synthesis	2
i)	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	ed in
• `	TCA cycle	
j)	Name two drugs inhibiting DNA replication	25/2
2		<i>y</i>
	Give the names and structures of the substrate and product for the following	4
enz	zymatic reactions (any 2)	4
	i) pyruvate dehydrogenase complex	
	ii) Xanthine oxidase	
b) W.	iii) β- Ketoacyl ACP reductase	a tha
	rite structures of given substrate and product with name of the enzyme catalysing eaction (any 2)	g the 4
	i) oxaloacetate to phoshoenolpyruvate	
	ii) adenylosuccinate to AMP	
	iii) Acetoacetyl CoA to HMG CoA	
c) Dra	aw schematic representation of DNA replication in prokaryotic cell	3
3. a)	Describe de novo synthesis of CTP	4
b)]	Discuss post transcriptional modification in eukaryotes	4
c) (Give the significance of telomeres and telomerase inhibitors	3
		4
~ ~ ~ ~ ~	Distinguish between oxidative and substrate level phosphorylation	4
VYY	Differentiate between prokaryotic and eukaryotic translation	2
	Explain Sanger dideoxy method for DNA sequencing	3
5. a)	Write a note on glycogenolysis	4
(A) (A)	Explain the energy generation phase of glycolysis	4
	Differentiate biosynthesis and β- oxidation of fatty acid	3
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- 1 - 0	Write a note on Salvage pathway and give it significance	3
\bigcirc \land \land \land	Compare biosynthesis with chemical synthesis of peptides	3
(), () \)	Give steps for synthesis of mevalonate	3
(d)	Describe role of proteases and peptidases	2

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