Q.P. Code :02255

[Time: Three Hours] [Marks:80]

Please check whether you have got the right question paper.

N.B: 1. All questions are compulsory.

(any four)	01 01 01
C. Write complete name of branching enzyme involved in glycogenesis D. Name of drug which inhibits thymidylate synthase. E. In fatty acid biosynthesis shuttle is involved. F. Name the drug which modulate uric acid synthesis G. Give names of two enzymes which are only present in glyoxalate cycle and not in TCA cycle. H. Define substrate level phosphorylation with an example I. State significance of pentose phosphate pathway. J. Draw structures of cholesterol K. Calculate the number of ATP formed in B-oxidation of linoleic acid. L. Enlist names of pathway for eicosanoid synthesis M. Enlist precursors for purine synthesis. Q.2 A Write names and structure of subtracts and products for the following enzyme catalyzed reactions (any four)	01
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	08
i. Glyceraldehydes dehydrogenase	
ii. Gluconolactone hydrolase	
iii. Thiokinase	
iv. Prostacycline synthase	
v. Orotidylic acid decarboxylase	
B Give name of enzyme catalyzing the following conversation i. dUMP to dTMP	04
ii. phosphoenol pyruvate to pyruvate	
iii. succinyl CoA succinate	
iv. glyoxalate to malate	
Q.3 A. Discuss series of reaction in Kreb's cycle for conversation of oxaloacetate to D-kctoglutarate	03
B. Write the three rate limiting steps for reversal of glycolsis.	03
C. Depicts utilization of ketole bodies as an alternatives pathway of energy.	02
D. Give regulation for DENOVO biosynthesis of purine nucleotides	02
E. Write reaction for biosynthesis of PGH ₂ from arachidonic acid	02
Q.4 A. Describe the biosynthesis of palmitate from malonyl ACP	03
B. Depict schematically election transport chain	03
C. Explain term salvage reaction with an example	02
D. Write reaction catalyzed by transadolase	02
E. Give the formation of AMP from IMP	02

TURN OVER

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Q.5	A. Discuss the preparatory phase of glycoysis	< 03
	B. Explain B-oxidation of fatty acid with odd numbers of carbon atoms	03
	C. Discuss oxidative phosphorylation	02
	D. Outline steps involved in conversion of fatty acyl CoA to β -hydroxyacyl CoA	02
Q.6	A. Discuss glycogenolysis	03
	B. Discuss biosynthesis of OMP	03
	C. Give reaction for rate limiting step of cholesterol biosynthesis with inhibitor drug.	02
	D. Explain glycerol phosphate shuttle involved in transferring NADH to mitochondria	02
	E. Give possible biosynthetic route for lecithin	02
