QP Code: 21750

(3 Hours)		[Total Marks: 70
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CARISTEIN CARRISTEIN CARRISTER CARRISTER CARRISTER CARRISTER CARRI N.B.: (1) All questions are compulsory no of ATP are synthesized in β oxitation of Palmitic acid. (b) Draw the structure of 2 purine bases of DNA (c) Name the initiation codon and it's respective aminoacid. (d) Define 'Glycolysis' and write the role of phospho fructokinase in glycolysis. (e) Name the enzyme used in conversion of pyruvic acid to ethanol. (f) Name two dugs used to descrease serum cholestorol level. (g) Name any two diseases due to disorders of pyrimidine metabolism. (h) What is telomerase name any two drugs inhibiting the same. (i) What is promoter region name any two promoter regions in eucaryotic cells. 2. (a) Give the names and structures of the substrates and products of the following enzyme reaction (any two) (i) Pyrurate dehydrogenase. (ii) Lactate dehydroganate. (iii) HMG CoA lyase. (b) Write the name of enzyme catalyting following reaction. (i) Fructose to fuctose 6-phosphate (ii) Ionosine monophosphate to xanthosine monophosphate (iii) α-D-Glucose-6 phaspate to D - Fructose -6-phosphate. (iv) Acyl-carnitine to Acyl-CoA (c) Describe multiprotein complexes in Rectron transport chain. 3 3. (a) Describe Energy investment phase and splitting phase of EMP pathway. (b) Write the types and specific functions of DNA polymerase in eucaryotic cell. 3 (c) Explain ketone body synthesis. 4 4. (a) Explain post transcriptional modifications in eucaryotic cell. (b) Write the reactions and enzymes involved in synthesis of AMP and GMP using IMP (c) Explain reactions of β exidation occurring in mitochondrial matrix. 3 5. (a) Describe the process of DNA Sequencing by sanger's method. (b) Explain the process of solid phase peptde synthesis. 3 (c) Explain Glyoxylate shunt. 3 6. (a) Write note on DNA polymorphism (b) Draw the salvage pathway for purine nucleotide biosynthesis. (d) Enlist the protein synthesis inhibitors which are used as drugs. Differentiate between oxidative and substrate level phosphorylation 3