Andhra University Common Entrance Test (AUCET)

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Andhra University Region

Post Graduation Common Entrance Test (AURPGCET)

Paper: Biochemistry

Year: 2005

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Andhra University Common Entrance Test (AUCET)

Biochemistry – 2005

PART-A1. The mature erythrocyte contains1. Cytochromes2. TCA – enzymes3. Pyruvic kinase3. ATP – ase2. Hemoglobin is responsible for what percentage of carbondioxide transport by the blood?1. 902. 503. 104. 53. Christmas factor is synonymous with1. Proconvertin2. Antihemophilic factor-B3. Platelet accelerator4. Factor XI4. Blood plasma differs from blood serum in content of1. Lipid2. Erythrocytes3. Protein4. Carbohydrate5. The naturally occuring porphyrins are1. Usually associated with a metal2. Usually associated with a metal3. Only found in animals4. Usually chains of pyrrole rings6. Among the anticoagulants normally present in an animal is1. Dicumarol2. Heparin3. Vitamin-K4. Lipoprotion lipase	 The major pathway for calcium excretion under normal condition is Feces 2. Sweat 3. Urine 4. Milk The biological value of a protein depends upon The biological value of a protein depends upon The digestibility alone Digestibility and amino acid composition Amino acid composition alone Digestibility and leucine Tetany due to hypocalcemia results from removal of the Parathyroids 2. Thyroids Pituitary 4. Adrenals The ingestion of which food-stuff results in the greatest specific dynamic action? Fat 2. Carbohydrate Protein 4. Vitamins Ferritin is found in Liver 2. Kidney 3. Pancreas 4. Bone A hyperglycemic factor produced by the pancreas is Insulin 2. Glucagon 3. FSH 4. ACTH
7. Which is not a part of the hemoglobin molecule?1. Histidine 2. Protein	 Occur only in prostatic tissue Are alicyclic fatty acid derivatives
3. Ferricion 4. Vinyl groups	4. Are synthesized from oleic acids
8. The normal P ^H of blood is	18. How many different codons are capable of ter-
1. 7.4 2. 6.8 3. 7.7 4. 7.1	minating polypeptide chain elongation in pro-
9. Oxidation of which substance yields the most	tein synthesis? 1. One 2. Two -3. Three 4. Four
calories per gram? 1. Glucose 2. Lipid	19. Transiation results in a product known as
3. Animal protein 4. Glycogen	1. Protein 2. t–RNA
10. A negative nitrogen balance is observed	3 m-RNA 4. DNA
1. During normal pregnancy	20. A potent inhibitor of protein synthesis that
2. During normal child growth	acts as an analogue of amino acyl t-RNA is
3. During convalescence	1. Mitomycin–C 2. Streptomycin
4. In malnutrition	3. Rifampicin 4. Puromycin
4. In manualition	. Intempreter T. I dromyon

21. Nucleotides are linked to one another in RNA by one of the following?	35. Antigen is initially presented to T-lympho- cytes by
1. Phosphate ester bond 2. Phosphodiester bond	1. Macrophages 2. Neutrophils
Desired state Delinger and a state of the state of the	3. Plasma cells 4. Platelets
3. Glycosidic bond 4. Hydrophobic bond	36. The codon for phenylalanine is
22. One of the following is a stable isotope 1. ¹⁵ N 2. ¹⁴ C 3. ³² P 4. ¹³¹ I	
23. One of the following is a radioactive isotope 1. ² H 2. ¹⁵ N 3. ¹³ C 4. ³ H	37. Retriction enzymes have been found in
	1. Humans 2. Birds
24. In ELISA the enzyme label for the antibody	3. Bacteria 4. Bacterio phages
may be 1. Glucose oxidase 2. Amylase	38. Sigma and Rhofactors are required for
The second s	1. Replication 2. Transcription
the second	3. Translation 4. Polymerization
25. The half-life of ¹⁴ C isotope is 1. 51 years 2. 5100 years	39. Okasaki fragments are small bits of
	1. RNA 2. DNA
3. 510 years 4. 5 years	3. DNA with RNA heads 4. RNA with DNA heads
26. GM-counter is used to measure	40. DNA directed RNA polymerase is
1. Gamma –radiation 2. Protons	1. Replicase 2. Transcriptase
3. Beta–radiation 4. Alpha–radiation	3. Reverse transcriptase 4. Polymerase III
27. Kwashiorker results from	PART-B
1. Vitamin A deficiency	FARI-D
2. Vitamin D deficiency	41. In competitive inhibition
3. Mineral deficiency in diet	1. The K_m is unchanged 2. The K_m is decreased
4. Protein nd calorie deficiency in diet	and the second
28. Soya-bean proteins are rich in	3. V_{max} is decreased 4. V_{max} is unchanged
1. Lysine 2. Alanine 3. Glycine 4. Proline	42. K _m is
29. Inactive plasminogen is activated by	1. The substrate concentration that gives
1. Fibrinogen 2. Fibrin	half-maximal velocity
3. Thrombin 4. Calcium ions	2. The dissociation constant for the ES–complex
30. The following enzyme is bound to the cell	
membrane O-TRAS	required to achieve maximal velocity
1. Sodium–Potassium ATP ase	4. Identical for all isozymes of an enzyme
2. Lipase	43. An enzyme of saliva that hydrolyzes starch is
3. Pepsin	1. Pepsin 2. β –amylase
4. Hexokinase	3. α–amylase 4. Maltase
31. One of the following is not estimated by RIA	44. Which one of the following is an essentia
1. T ₃ 2. T ₄ 100 000000000000000000000000000000000	cofactor in carboxylation reactions?
3. Insulin 4. ² H-testosterone	1. Coenzyme A an ar bin 2. CTP taking a an
32. The micro organism that can cause jaundice is	
1. Steptococcus faecalis	45. A specific poison for succinic dehydrogenas
2. Escherechia coli	is amounted and any
3. Plasmodium sp. heen for et animaliar et al.	
4. Salmonella typhimurium	46. The coenzyme for transketolase is
33. Zinc is a constituent of the enzyme	1. Coenzyme A to be 2. NAD+ a sector of the
1. Lactate dehydrogenase ste normoo ed 1 d	3. FMN 4, TPP
2. Glutamate dehydrogenase	47. Which one of the following is not a componen
3. Carbonic anhydrase	of coenzyme A?
4. Transketolase	1. Adenylic acid 2. Acetic acid
34. Immune lymphocytes follows more a 3 J T	3. Pantothenic acid 4. Cysteamine
1. Produce only µ -chains reduct entited	48. Dehydrogenases use as coenzymes all of the
2. Are progenitors of T as well as B lymphocytes	following, except
3. Express IgM on their cell surface and a final field for	1. NAD ⁺ 2. FAD diggeodition 8
4. Must go through the thymus to mature	3. FMN 4. Ferriprotoporphyrin
i. Brude go unough the mynus to mature	L

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19.	Urea is produced by the enzyme	64. Vitamin K plays an essential role in
	1. Urease 2. Glutaminase	1. Preventing thrombasis
	3. Arginase 4. Uricase	2. The biosynthesis of prothrombin and procon-
0.	The specific substrate for oxidative phospho-	vertin
	rylation is	3. maintaining retinal integrity
	1. AMP 2. ADP 3. ATP 4. NADP ⁺	4. Preventing bile stasis
51.	An enzyme not involved in glycolysis is	65. A vitamin that acts as a reducing agent is
	1. Aldolase	1. Nicotinamide 2. Riboflavin
	2. α – glycerophosphate dehydrogenase	3. Ascorbic acid 4. Folic acid
	3. Enolase	66. Vitamin B ₁₂ is a
	4. Pyruvate kinase	1. Porphyrin like compound
52.	Dehydrogenases of the hexose monophos-	2. Fat-solube vitamin
	phate shunt are specific for	3. Vitamin synthesized by all animals except man
	1. NAD ⁺ 2. FAD 3. NADP ⁺ 4. FMN	4. Copper – containing B-vitamin
53.	When one molecule of glucose is completely oxi- dized in vivo, how many ATP molecules are formed?	67. The growth of bacteria requiring p-aminoben- zoic acid is inhibited by
	1. 2 2. 12 3. 24 4. 36	1. Folic acid 2. Tetrahydrofolic acid
54	Which amino acid undergoes transamination	3. Citrovorum factor 4. Sulfonamides
- I.	to form α -ketoisocaproic acid?	68. Whole wheat is an excellent source of
	1. Leucine 2. Isoleucine 3. Valine 4. Lysine	1. Thiamine 2. Vitamin–A
55.	For the conversion of dUMP to TMP, which	2. Ascorbic acid 4. Vitamin–D
	one of the following is required?	69. In man, the principal catabolic product of
	1. Tetrahydrofolic acid 2. ATP	purines is
	3. FMN 4. Pyridoxal phosphate	1. Allantoin 2. Urea
56.	Kinases require	3. Uric acid 4. Ammonia
	1. Mg ⁺⁺ 2. Mn ⁺⁺	70. A key substance in pyrimidine biosynthesis is
	3. Inorganic phosphate 4. EDTA	1. ATP 2. Carbamoyl phosphate
57	. A fatty acid not synthesized in man is	3. Thiourea 4. NADP ⁺
	1. Oleic acid 2. Linoleic acid	The second s
	3. Stearic acid 4. Palmitic acid	PART-C
58	. The major site of aceto acetate formation from	71. Inulin is a
	fatty acids is the	1. Fructosan 2. Glucosan
	1. liver 2. kidney 3. Lungs 4. Muscle	3. Xylan 4. Hormone
59). An amino acid not involved in urea synthesis is	72. Choline is
	1. Arginine 2. Histidine	1. Amino acid 2. Fatty acid
	3. Citrulline 4. Omithine	3. Quaternary base 4. Sugar
60). An essential amino acid in man is	73. Collagen is very rich in
	1. Proline 2. Serine 3. Methionine 4. Tyrosine	1 Clusing 2 Serine
61	1. Which amino acid possesses two as symmetric	3. Aspartic acid 4. Glutamic acid
	carbon atoms	74. The following is not used in gel electrophoresi
	1. Valine 2. Leucine 3. Histidine 4. Isoleucine	0 Stauch
6	2. An animal is in positive nitrogen balance when	3. Polyacry lamide 4. Alumina
	1. Nitrogen intake exceeds output	75. The common stain for proteins in elec
	2. Nitrogen output exceeds intake	
	3. Urine is nitrogen free	1. Bromophenol blue 2. Oil red O
	4. Urine contains nitrogen	A C 1 A Ninhudrin
6	3. The biological activity of the tocopherols has	76. TLC is very useful to determine
	been attributed to their action as	1 Tulian number
	1. Antioxidants	2. Acetyl number
	2. Carriers in the electron transport chain defor	3. Saponification value
	3. Anticoagulants	4. Fatty acid composition
	4. Precursors of vitamin A	4. rate and composition

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 1COOH 2SO₃H 3. Phenolic group 4. Enolic group 79. For separtion of proteins and nucleic acids the following ion-exchange resin is preferred 1. Alumina 2. Dowex 3. DEAE cellulose 4. Amberlite 80. The instrument commonly used to estimate electrolytes is Spectro photometer Colori meter Polari meter Flame photo meter 81. Keratin is a Fibrous protein Glubulin Histone Conjugated protein 82. Histones Are proteins rich in lysine and arginine Are indentical to protamines Have relatively very high molecular weights 83. Which one of the following polysacharides is not a polymer of glucose? Amylopeetin 								 3. Iron -Porphyrin proteins 4. Metal containing flavoproteins 36. Chemically heparin is a Purine Protein Lipid Carbohydrate 87. The Beer - Lambert law relates absorbance with Concentration of solute and pathength of the solution cell Concentration of solute and height of the solution cell Concentration of solute and height of the solution cell Length and heights of solution column Intensities of incident and transmitted lights 88. Sphingosine is Unsaturated fatty acid 2. Saturated fatty acid Sterol Complex amino alcohom 89. Liebermann - Buchard reaction is to detect Glycerol Coleic acid Cholesterol Cerebroside 90. Iodine value of an oil shows the extent of ' Polymerization Unsaturation 							h of the he solu- lights acid alcohol etect
					3	AN	12	W	ER	S					press and
1.3		3.4	4.3	5.1	6.2	7.4	8.1	9.2	10.3	S. Constant	12.2	13.1	14.3	15.2	16.2
17.3			20.4	21.2	22.2	23.2	24.4	25.2	26.3	27.4	28.1	29.1	ert in	31.4	32.4
33.3		35.1	b he a	37.4	38.2	39.3	40.2	41.2		43.2	44.4	45.1		47.2	48.4
			52.3	53.4	54	55.1	56.1	57.1			60.3	61.4	62.1	63.1	64.2
49.3		07 4	601	693	70.2	71.1	72.3	73.1	74.4	75.1	76.4	77.1	78.2	79.3	80.4
49.3 65.3	66.1	67.4	00.1	00.0		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								