Andhra University Common Entrance Test (AUCET) Now it is

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	-A manufacture to the
1.	Radioimmuno assay w	as developed by
	1. Hershey and Chase	2. Berson and Yalow
	3. Temin and Baltimore	4. Banting and Best
2.		lent and fatal allergic
	reaction. The compound	nds released are
	1. Prostagalands	2. Leukotrienes
	3. Prostacyclines	
3.	The monoclonal ant devised by	ibody technology was
	1. Boyer and Walker	2. Aron and Jagendrof
	3. Kohler and Milstein	4. Elton and Hitchings
4.	Allergic reactions are	related with
	1. IgG 2. IgM	
5.	Tissue rejection is rela	
		2. Cytotoxic T cells
	and the second se	4. Suppresor T cells
6.		catalytic activity are
	known as	0.11
	1. Ribozymes	
		4. Splisozymes
7.	The enzyme used as a agent is	therapeutic fibrinolytic
	1. Fibrinogen	2. Plasminogen
	3. Streptokinase	
8.	Hemophilia A is due t ting factor	o the deficiency of clot-
		3. VIII 4. II
		lue to insufficient levels
	of	
1	1. Prolactin 2. ACH	3. ADH 4. TRH
10.	In hemolytic jaundice,	van der Bergh reaction is
	1. Indirect positive	
	3. Biphasic	4. Negative
11.	The serum enzyme ele	vated in alcoholism
		2. Aspartate tranaminase
	3. 5 ¹ - Nucleotidase	4. r - Glutamyl transpeptidase

1000	12.		ction of liver can be	
		assessed by measuring		
			2. Bile pigments	
		3. Hippuric acid	4. Transaminases	
	13.		cortical function results in	
			2. Cushing's syndrome	
			4. Parkinson's disease	
	14.	The natural analgesics that control pain and		
		emotions in the anim		
		1. Morphine		
			4. Pheromones	
	15.		s involved in wound healing	
		1. Calcium	2. Zinc	
		3. Sodium	4. Magnesium	
16. The disorders of te				
100			2. Hypo calcemia	
1			4. Hypophosphatemia	
17. Matabolic acidosis is primarily due to				
	2.01	1. Increase in carbonic	COLESCIENT, AND COMPANY STREET, STREET, COMPANY	
	1.71	2. Decrease in carbonic acid 3. Increase in bicarbonate		
	72.8	n Deereube in Steinschute		
	18.		tion to plasma osmolality	
		is due to		
		1. Na ⁺ 2. K ⁺	3. Mg ⁺ 4. Ca ²⁺	
	19.	The Na ⁺ -K ⁺ pump is i		
		1. Fluoride	2. Iodoacetate	
		3. Ouabain	4. Oligomycin	
	20.	According to the fluid mosaic model, the bio- logical membranes are composed of		
			re composed of	
		1. Multiple lipid layer		
		2. Lipid bilayers		
	1999	3. Protein lipid bilayers		
		4. Protein Carbohydrat		
	21.		ninantly due to the defi-	
		ciency of	0 Tistle	
		1. Proteins	2. Lipids	
	1000	3. Calories	4. Vitamins	

47. An enzyme of purine metabolism associated with immunodeficiency disease	60. The reducing equivalents for the synthesis of
1. Adenine phosphoribosyl transferase	fatty acids are supplied by
2. H/G PRT	1. FADH ₂ 2. NADH 3. NADPH 4. FH ₄
3. Adenosine deaminase	61. The No. of acetyl CoA molecules liberated in the ovidation of polynitic soid
	the oxidation of palmitic acid
4. Guanine deaminase 48. Lesch - Nyhan syndrome is due to the defi-	1.8 2.6 3.10 4.12
ciency of the enzyme	62. The enzyme glucose - 6 - phosphatase is pres-
1. Adenosine deaminase	ent in the following organs except 1. Liver 2. Kidney 3. Muscle 4. Brain
2. H/G PRT	
	63. The enzyme pyruvate carboxylase converts
* *	1 11-1-1-
4. Purine nucleoside phosporylase (PNP)	The set of ball in respire of the set of the
49. Gout is a metabolic disease associated with the overproduction of	3. Acetyl CoA
	4. Phosphoenol pyruvate (PEP)
1. Urea 2. Uric acid	64. One of the following enzymes causes substrate
3. Ammonia 4. Creatinine	level phosphorylation to generate GTP
50. The low incidence of cardiovascular disorders	1. Phosphofructokinase (PFK)
is associated with increased plasma concen- tration of	2. Pyruvate dehydrogenase (PDH)
	3. Succinate thiokinase
1. Chilomicrons 2. Low Density Lipoprotein (LDL)	4. Succinate dehydrogenase (SDH)
	65. Paul Boyer proposed the rotational catalysis
3. High Density of Lipoproteins (HDL) 4. Cholesterol	mechanism for the enzyme
	1. PFK 2. ATP synthase
51. Biologically important pentapeptide is	3. ATC ase 4. DNA ligase
1. Glutathione 2. TRH	66. An inhibitor of oxidative phosphorylation is
3. Substance P 4. Enkephalins	1. Streptomycin 2. Valinomycin
52. An inhibitor of mitochondrial ATP synthetase is	3. Erythromycin 4. Tetracycline
1. Ouabain 2. Oligomycin	67. The non-protein compound acting as a biocat-
3. Atractyloside 4. Azaserine	alyst is
53. Parkinson's disease is linked with the	1. DNA 2. RNA
decreased synthesis of	3. Selenocysteine 4. Sn RNA
1. Insulin 2. GABA	68. The enzyme ornithine decarboxylase is inhibited
3. Dopamine 4. Serotonin	by Difluromethyl ornithine (DFMO). DFMO is a
54. Nitric oxide is formed from the amino acid	1. Competitive inhibitor
1. Arginine 2. Glutamate	2. Non-competitive inhibitor
3. Glycine 4. Ornithine	3. Suicide inhibitor 4. Allosteric inhibitor
55. The defect in the enzyme Tyrosinase causes	69. An example of an irreversible inhibitor of
1. Phenyl ketonuria 2. Alkaptonuria	enzymes containing serine at the act site is
3. Albinism 4. Tyrosinosis	1. Iodoacetate
56. L-amino acid oxidase is depended on the coenzyme	2. Disopropyl Flurophosphate (DFP)
1. FMN 2. FAD 3. NAD ⁺ 4. NADP ⁺	3. Sulphanilamides 4. FDNB
57. Histidene decarboxylase is dependent on the	70. Most enzymes have the temperature co effi-
coenzyme	ciency Q ₁₀ is
1. TPP 2. PLP 3. Biotin 4. FAD	1.4 2.6 3.2 4.8
58. Cholesterol can serve as a precursor for the	
synthesis of	PART-C have been
1. Ketone bodies 2. Coenzyme A	71. A mixture of proteins were separated by SDS-
3. Bile acid 4. Eicosaniods	PAGE. The mixture contains proteins X,Y and
59. The most predominant unsaturated fatty acid	P having molecular weights 10,000 daltons,
present in fish food is	50,000 daltons and 5000 daltons respectively.
1. Linoleic acid 2. Eicosapentanenoic acid	Predict the order of mobility.
3. Arachidonic acid 4. Prostanoic acid	1. P, X, Y 2. Y, X, P 3. X, Y, P 4. X, P, Y

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22.	The essential amino acid limiting is rice is	1. Okazarki fragment
	1. Methionine 2. Tryptophan	2. Klenow fragment a participation of the
	3. Lysine 4. Histidine	3. Telomere fragment
23.	The protein with highest biological value	4. DNA polymerase with 5 ¹ -3 ¹ exonuclease
	1. Milk protein 2. Fish protein	37. In eukaryotic cells the synthesis of t RNA is
	3. Meat protein 4. Egg protein	carried out by
24.	The calorific value of proteins (Cal/g) is	1. RNA polumerase I 2. RNA polymerase II
	1.2 2.4 3.6 4.9	3. RNA polymerase III 4. RNA polymerase IV
25	One curi (Ci) is equals to	38. The enzymes with the sole function of under-
20.	1. 3.7×10^{12} dpm 2. 2.2×10^{12} dpm	winding or relaxing DNA are : The other
	$3.5.9 \times 10^{12} \text{ dpm}$ $4.6.1 \times 10^{12} \text{ dpm}$	1. DNA ligases 2. DNases
96	Liquid scintillation counter is used to meas-	3. Topoisomerases 4. Telomerases
40.	ure the radioactivity of the isotope	39. The enzyme responsible for the replication of
	1. ¹³¹ I 2. ¹²⁵ I 3. ⁶⁰ CO 4. ³⁵ S	mitochondrial DNA: mitolibergraves aff
27	The genetic material of the human immunod-	1. DNA polymerase α 2. DNA polymerase β
	eficiency virus (HIV) is	3. DNA polymerase γ 4. DNA polymerase δ
	1. Single standard DNA 2. Double standrad DNA	40. The experimental evidence for the semicon-
	3. RNA 4. hn RNA	servative DNA replication was provided by :
28	The serum of an individual with the blood	1. Watson and Crick
40.	group A has antibodies of type	2. Meselson and Stahl
	1. Anti-A 2. Anti-B	3. Jacob and Monad
	3. Anti-A and Anti-B 4. Anti-O	4. McLeod and Mc Carty
29.	The most effective buffer in plasma is	PART-B
	1. K ₂ HPO ₄ and KH ₂ PO ₄	PART-B A1 During the biosynthesis of catacholamines.
	2. NaHCO ₃ and H ₂ CO ₃	1. During the biosyntheory of cuttoring
	3. NH ₄ ⁺ and NH ₃	dopamine is converted to norepinephrine by
	4. Haemoglobin and Albumin	dopamine β-hydroxylase. This enzyme requires
30	Non-coding intervening sequences of DNA are	1. Tetrahydrobiopterin 2. SAM
00.	called	3. Ascorbic acid 4. Tetrahydro folate
	1. Exons 2. Introns	42. Liver cannot utilize ketone bodies due to lack
	3. Prions 4. Transposons	of the enzyme
31.	The transfer of DNA from agarose gels to	1. Thiolase
	nylon membrane is known as	2. Thiphorase
	1. Western blotting 2. Northern blotting	3. HMG CoA lyase
	3. Southern blotting 4. Electroporation	4. β-hydroxy butyrate dehydrogenase
32	A key enzyme in gene cloning is	43. Chemically folic acid is composed of
	1. DNA Helicase	1. Pyrimidine, p-amino benzoic acid, glutamate
	2. Restriction endonuclease	2. Imidazol, p-amino benzoic acid, asparatate
	3. DNase	3. Pteridine, p-amino benzoic acid, glutamate
1	4. Modification Methylase	4. Pyridine, p-amino benzoic acid, asparatate
33	. The codon that terminates protein biosynthe-	4. Provitamin of Vitamin A is
diffe	sis management and share the temperature and	1. Retinol 2. Retinoic acid
R.	1. AUG 2. UGA 3. GUA 4. AAG	3. β-Ionone 4. β-Carotene
34	. An inhibitor of transcription is	45. The metabolic excreted in urine in thymine
	1. Puromycin 2. Streptomycin	deficiency
22	3. Actinomycin-D 4. Chlorophenicol	1. Pyruvate 2. Glucose
. 3!	5. The total number of codons available to code	3. FIGLU 4. Uric acid
	for 20 amino acids	46. The fat soluble vitamin required for carboxy-
- Forthe	1. 20 2. 32 . 3. 64 4. 61	lation reaction
3	3. Mild protease treatment of DNA polymerase I	1. Vitamin A 2. Vitamin K
	yields	3. Vitamin D 4. Vitamin E
19-3		

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72. An amino acid mixture consisting of phenyl	80. The patients of sickle-cell anemia are resistant
alanine, glycine and glutamic acid is to be	1. Diabetes 2. Jaundice
separated by HPLC. The stationary phase is	3. Malaria 4. Filaria
aqueous and the mobil phase is less polar than water. Predict the order of elution	81. The cukaryotic mRNA is capped at the 51-t
1. Phe, Gly, Glu 2. Gly, Glu, Phe	minal end by
	1. Poly (A) 2. 5-methyl CCA
	3. 7-methyl Gppp 4. TµC
73. You have a mixture of proteins A, B and C hav- ing the molecular weights 12,000 daltons, 68,000	82. If the percentage concentration of thymine
daltons and 9000 daltons respectively. Predict	DNA is 40%, the concentration of cytosine will
the order of emergence of these proteins by gel	1. 107 2. 207 3. 307 4. 407
exclusion chromatographic column.	83. One of the following is a major purine ba
1. C, B, A 2, B, A, C 3. A, B, C 4. C, A, B	found in tea
74. A biochemical technique that can offer a one-	1. Caffeine 2. Theobromine
step purification of a protein is	- a the cost of th
1. Gel filtration chromatography	3. Theophilline 4. Hypoxanthine
2. Ion exchange chromatography	84. Chemically uric acid is
3. Affinity chromatography	1. 6-oxypurine 2, 2,6-dioxypurine
4. Reverse phased column chromatography	3. 2.6,8-trioxypurin 4. 6-aminopurine
75. Proteins can be cleaved at specific sites by	85. The number of polypeptide chains in a prote
chemical reagents. The sites of cleavage	can be identified by treatment with
cyanogens bromide are	1. Cyanogen bromide 2. Sauger's reagent
1. At internal Arginine bromide are	3. Dansyl chloride 4. Edmain's reagent
2. At internal Methionine residues	86. The antifreeze glycoproteins consists
	repeating units of the tripeptide
 At internal Lysine residues At internal Aromatic amino acid residues 	1. Gly-Gly-Thr 2. Ala-Ala-Thr
	3. Gly-Ala-Thr 4. Thr-Gly-Ala
76. One syndberg unit (S) value is equals to	87. The unsaturated fatty acid that are essenti
1. 1×10^{-23} sec 2. 1×10^{-13} sec	to humans
3. 6.3×10^{-23} sec 4. 3.7×10^{-23} sec	1. Oleic acid and Linolenic acid
77. The absorbance (A) of a 5×10^{-1} M solution of	2. Linoleic acid and Linolenic acid
tyrosine at wave length of 280nm is 0.75. The	3. Arachidonic acid and palmitoleic acid
path length of cuvette is 1 cm. What is the molar absorption coefficient ?	4. Oleic acid and Palmitoleic acid
1.0.75 × 101 Mil mil 0.0.70 valati	
$\begin{array}{ll} 1.\ 0.75\times 10^4\ {\rm M}^{-1}\ {\rm cm}^{-1} & 2.\ 0.50\times 10^4\ {\rm M}^{-1}\ {\rm cm}^{-1} \\ 3.\ 0.15\times 10^4\ {\rm M}^{-1}\ {\rm cm}^{-1} & 4.\ 3.75\times 10^4\ {\rm M}^{-1}\ {\rm cm}^{-1} \end{array}$	88. Name of the test employed to check the purit of butter through the estin volatile fatty acid
18 An example of eating 4, 3,75 × 10 ⁴ M ⁻¹ cm ⁻¹	
 An example of cation exchanger used in pro- tein purification is 	a second a s
1. DEAE - cellulose 2. CM - cellulose	3. Saponification number 4. Acid number
	89. Glucose on reduction results in the formatio of the following
3. Dowex - 50 4. Sephedex G - 50	T MANUAL A A THE 2 MANUAL
9. The special proteins that aid in the correct	1. Mannitol 2. Sorbitol 3. Ribitol 4. Inesitol
folding of many proteins are called	90. One of the following is a non-reducing disac charide
1. Proproteins 2. Zymogens	
3. Chaperones 4. Prions	1. Maltose 2. Lactose 3. Trehalose 4. Isomaltos
ANG	MEDIS
1.2 2.1 & 2 3.3 4.4 5.2 6.2 7.8 8.3	NERS(
	9.3 10.2 11 12.2 13.1 14.2 15 16.1
and the second	25.2 26 27.3 28.2 29.1 30.2 31.3 32.2
33.2 34.3 35.4 36.2 37.3 38.3 39.3 40.2	41.3 42.3 43.3 44.1 45. 46. 47.3 48.2
49.2 50.4 51.4 52.2 53.3 54.1 55.1 56.1	57.3 58.3 59.2 60.3 61.1 62.4 63.2 64.4
65 66.2 67.4 68.3 69 70 71.2 72.4	73.2 74.3 75.2 76.2 77 78.1 79.3 80.3
81.3 82.1 83.1 84.3 85.2 86 87.2 88.4 8	
01.0 02.1 00.1 04.3 85.2 85. 87.9 90.4	

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