Andhra University Common Entrance Test (AUCET) Now it is

Andhra University Region Post Graduation Common Entrance Test (AURPGCET)

Paper: Biochemistry

Year: 2004

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Note: The given papers are previous AUCET Biochemistry papers

Andhra University Common Entrance Test (AUCET) Biochemistry – 2004

PART-A 1. A potent inhibitor of protein synthesis that acts as an analogue of aminoacyl t-RNA is 1. Mitomycin C 2. Streptomycin 3. Rifampicin 4. Puromycin 2. Translation results in a product known as 1. Protein 2. t-RNA 3. m-RNA 4. DNA 3. How many different codons are capable of terminating polypeptide chain elongation in proteins 1. 1 2. 2 3. 3 4. 4 4. The prostaglandins: 1. Cause hypertension 2. Occur only in prostatic tissue 3. Are alicyclic fatty acid derivatives 4. Are synthesized from oleic acid 5. A hyperglycemic factor produced by the pancreas is 1. FSH 2. Insulin 3. Thyroxine 4. Glucagon 6. Ferritin is found in 1. Liver 2. Kidney 3. Pancreas 4. Bone 7. The ingestion of which food - stuff results in the greatest specific dynamic action 1. Fat 2. Carbohydrate 3. Protein 4. Vitamins 8. Tetany due to hypoclacemia results from removal of the 1. Parathyroids 2. Thyroids 3. Pituitary 4. Adrenals 9. The biological value of a protein depends upon: 1. The digestibility alone 2. Digestibility and amino acid composition 3. Amino acid composition alone 4. Digestibility and leucine content	1. A negative nitrogen balance is observed 1. During normal pregnancy 2. During normal child growth 3. During convalescence 4. In malnutrition 12. Oxidation of which substance yeids the most calories per gram? 1. Glucose 2. Lipid 3. Animal Protein 4. Glycogen 13. The normal pH of blood is: 1. 7.4 2. 6.8 3. 7.7 4. 7.1 14. Which is not a part of the haemoglobin molecule? 1. Histidine 2. Protein 3. Ferric ion 4. Vinyl groups 15. Among the anti-coagulants normally present in an animal is: 1. Dicumarol 2. Heparin 3. Vitamin K 4. Lipoprotein lipase 16. The naturally occuring porphyrins are: 1. Usually associated with a metal 2. Usually associated with an uncharged metal ion 3. Only found in animals 4. Usually chains of pyrrole rings 17. Blood plasma deffers from blood serum in content of: 1. Lipid 2. Erithrocytes 3. Protein 4. Carbohydrate 18. Christmas factor is synonymous with: 1. Proconvertin 2. Antihaemophilic factor B 3. Platelet accelerator 4. Factor XI 19. The fetal haemoglobin: 1. Has O ₂ dissociation curves for any value of PCO ₂ identical to that of HbA 2. Is immunologically indistinguishable from HbA
10. The major path way for calcium excretion under normal condition is: 1. Feces 2. Sweat 3. Urine 4. Milk	Is physicochemically indistinguishable from HbA Disappears gradually from the circulation following birth

20	The mature erythrocyte contains:	1	0.35' 1.10'	
20.	1. Cytochromes 2. TCA enzymes			in diet to ogo gord# AA
	3. Pyruvic kinase 4. AT pase			deficiency in diet
21	DNA directed RNA polymerase is:		GM counter is used	
	1. Replicase 2. Transcriptase		1. Alpha radiation	
	3. Reverse transcriptase 4. Polymerase III			4. Protons
22	Okasaki fragments are small bits of:	1 2 32 95 15 16 57		sotope is ——
	1. RNA 2. DNA			3. 510 4. 5100
	3. DNA with RNA heads 4. RNA with DNA heads		may be:	ne lable for the antibody
23	Sigma and Rho factors are required for:	THE STREET	1. Lipase	0 1
20.	1. Replication 2. Transcription			2. Amylase
	3. Translation 4. Polymerisation			enase 4. Glucose oxidase
24	Restriction enzymes have been found in:		1. ³ H 2. ² H	is a radioactive isotope
- I.	1. Humans 2. Birds		One of the following	
	3. Bacteria 4. Bacterio phages			3. ¹⁵ N 4. ¹³¹ I
25	The codon for phenylalanine is:			ed to one another in RNA
20.	1. AAA 2. CCC 3.GGG 4. UUU			wing bonds?
26.	Antigen initially presented to T lymphocytes by:			d 2. Hydrophobic bond
20.	1. Macrophages 2. Neutrophils		3. Phosphodiester bond	
81 84	3. Plasma cells 4. Platelets			
27	Immature B lymphocytes:		PAI	RT-B
	1. produce ony μ chains	41.	In oxidative phosphe	orylation, the oxidation of
	2. Are progenitors of T as well as B lymphocytes			OH to NAD+ produces how
	3. Express IgM on their cell surface	1	many ATPs?	at at any any and
	4. Must go through the thymus to mature		1. 2 2. 3	3. 4 4. 5
28.	Zinc is a constituent of the enzyme:			the hexose monophos-
20.	1. Lactate dehydrogenase	1-16-65/EN60	phate shunt are spec	
	2. Glutamate dehydrogenase	5-410 YES	1. NAD+ 2. FAD	3. NADP+ 4. FMN
et oa	3. Carbonic anhydrase	105.00.25.75.00	A fatty acid not synt	
	4. Trasketolase		1. Oleic acid	2. Stearic acid
29.	The micro organism that can cause jaundice is:	Physical Street	3. Palmitic acid	4. Linoleic acid
	1. Salmonella typhimurium			ndergoes transamination
	2. Plasmodium sp	The state of the s	to form α-keto isoca	THE RESIDENCE OF THE RESIDENCE OF THE PARTY
	3. Escherichia coli	V-CHAMICAL CO.	1. Leucine	2. Isoleucine
	4. Streptococcus faecalis	E63 3/4750	3. Valine	4. Lysine
	One of the following is not estimated by RIA:	The second second		volved in urea synthesis is
	1. T ₃ 2. T ₄	TO A STATE OF LA	1. Arginine	2. Ornithine
	3. Insulin 4. ² H-testosterone	PUZZERNIESE	3. Citrulline	4. Histidine
31.	The following enzyme is bound to the cell		thesis is	ot involved in urea syn-
	membrane:	100 PM 100 PM 100 PM	1. Valine	2. Leucine
	1. Hexokinase 2. Sodium-potassium AT pase	Company of the Company	3. Isoleucine	4. Histidine
	3. Pepsin 4. Lipase	The state of the s		in RNA but not in DNA?
32.	Inactive plasminogen is activated by:		l. Uracil	2. Thymine
dioxi	1. Fibrinogen 2. Fibrin	- 13 Ph. 12 C	3. Cytosine	4. Guanine
	3. Thrombin 4. Calcium ions	STANDARD CAND		yrimidine biosynthesis is
33.	Soya bean proteins are rich in:		I. ATP	2. Thiouracil
	1. Lysine 2. Alamine		B. NADP+	4. Carbamyl Phosphate
	3. Glycine 4. Aspartic acid			of dUMP to TMP, which
34.	Kwashiorkor results from:			s required?
	1. Vitamin A deficiency 2. Vitamin D deficiency		. Tetrahydrofolic acid	2. ATP
	PRESENTATION OF THE PROPERTY OF		B. FMN	4. Pyridoxil phosphate

50.	Which one of the following is required as a	62. The feeding of avidin may result in a deficien-
	coenzyme for pyruvate decarboxylase?	cy of
	1. FMN 2. Biotin	1. Riboflavin 2. Biotin
	3. FAD 4. Thiamine pyrophosphate	3. Choline 4. Nicotinic acid
51.	The effect of 2, 4 - dinitrophenol is to	63. The pyrimidine nucleotides are derived from 1. Nicotinamide 2. Panthothenic acid
	1. Raise the R.Q.	
	2. Lower the R.Q.	3. Ascorbic acid 4. Pyridoxal
	3. Decrease the H ⁺ gradient across the mitochon-	64. The pellegra preventive factor in the Vitamin
	drial membrane	B complex is 1. Pantothenic acid 2. Pyridoxine
	4. Lower the BMR	3. Thiamine 4. Niacin
52.	Entrophy is a measure of the	
	1. Rate of an enzymatic reaction	65. K_m is: 1. The dissociation constant for the enzyme - sub-
	2. Free energy of an enzymatic reaction	strate complex
	3. Energy that is unavailable for work	2. The substrate concentration that gives half-
	4. Exothermicity of a reaction	maximal velocity
53.	Galactonemia is due to deficiency of which	3. Identical for all isozymes of an enzyme
	enzyme?	4. Independent of the nature of the substance
	1. UDP - galactose - n - epimerase	66. In non-competitive inhibition
	2. UDP - transferase 3. Galactose - 1 - Phosphate	1. The concentration of active enzyme molecules is
	4. UDP - galactose transferase	reduced the property of the restriction of the
F.4	An enzyme not involved in glycolysis is	2. V _{max} is increased
04.	1. Aldolase	3. The concentration of active enzyme molecules is unchanged
	2. α- glycerophosphate dehydrogenase	4. The apparent k _m is increased
	3. Pyruvate kinase	67. An enzyme of saliva that hydrolyzes starch is
	4. Enolase	1. Pepsin 2. β-amylase
55.	Reactivation of phosphorylase b is favoured by	2. α-amylase 4. Maltase
	1. Oxytocin 2. Insulin 3. ACTH 4. Glucagon	68. A specific poison for succinate dehydrogenase is
56	. The biological activity of the tocopherols has	1. Malate 2. Arsenite 3. Cyanide 4. Malonate
	been attribute, in part, to their action as	69. Urea is produced by the enzyme
	1. Antioxidants	1. Urease 2. Glutaminase
	2. Carriers in the electron transport chain	3. Arginase 4. Uricase
	3. Anticoagulants	70. The specific substrate for oxidative phospho-
	4. Antidotes for selenium poisoningβ-Carotene is converted to Vitamin A chiefly in	rylation is
57	the	1. AMP 2. ADP 3. ATP 4. NADP+
	1. Liver 2. Intestine 3. Spleen 4. Kidney	PART-C
EO	A Vitamin that is a reducing agent, a property	
30	that may explain its function is	71. Liebermann - Burchard reaction is to detect
	1. Nicotinamide 2. Vitamin C	1. Glycerol 2. Palmitic acid
	3. Thiamine 4. Folic acid	3. Cholesterol 4. Unsaturated
50). Whole wheat is an excellent source of	72. Sphingosine is
0.	1. Vitamin D 2. Vitamin A	1. Unsaturated fatty acid 2. Saturated fatty acid
	3. Thiamine 4. Ascorbic acid	3. Sterol 4. Complex amino alcoho
RI). The growth of bacteria requiring p-aminoben-	73. The Beer-Lambert's law relates absorbance with
	zoic acid is inhibited by	concentration of solute and path length of the solution cell.
		2. concentration of solute and height of the solu
THE S		tion cell.
6	1. Riboflavin is a constituent of 1 FAD 2. NAD+	3. Length and heights of solution column
	1. FAD 2. NAD	4. Intensities of incident and transmitted lights
THE RESERVE TO SHARE THE PARTY OF THE PARTY	4. UUIEUAI DUAVIASE	

4	demica	lly hep	arin is	a				82.	Inulin	isa							
1.	Purine			2. Pro	tein				1. Fruc	tosan 2	. Gluco	san 3.	xylan	4. H	ormon		
3.	Lipid			4. Car	bohydr	ate		83.	Cholir	e is							
75. Di	gitonin	isa							1. Amii	no acid		2. 1	Fatty a	cid			
1.	Protein			2. Gly	coside				3. Qua	ernary	base	4. 5	Sugar				
3.	3. Lipid 4. Alkaloid								84. Collagen is very rich in								
76. Cy	Cytochromes are 1. Riboflavin containing nucleotides 2. Pyridine nucleotides 3. Iron - Porphyrin proteins 4. Metal containing flavoproteins							1. Glycine 2. Serine									
1.								3. Aspa	rtic aci	d	4. (Glutam	ic acid				
2.							85.	The fo	in elec	ectrophoresis							
3.								1. Agar 2. Starch									
4.								3. Poly	acrylan	nide	4. /	Alumina	a				
	77. Reduction of glucose with calcium in water produces							86. The common stain for proteins in ele- trophoresis is									
1.	Sorbitol 2. Dulcitol						The state of the s	1. Bron		ol blue		Oil red					
3,	Mannito	ol		4. Sor	bose		al H		3. Cong				Ninhyd		in		
no	t a poly	ymer o	f gluce	se?		Mark D	les is	87. TLC is very useful to determine 1. Iodine number 2. Acetyl number 3. Saponification value 4. Fatty acid composition									
	Amylose			LINE PROPERTY.	ylopecti	ın											
	Glycoge			4. Inu	lin												
1	79. Histones 1. Are protein rich in lysine and or arginine 2. Are bound covalently to DNA 3. Are identical to protamines 4. Have relatively very high molecular weights							88. In molecular exclusion chromatography the following one will come as first fraction 1. Protein 2. Amino acids 3. Sugars 4. Sodium chloride 89. The high acidity of cation exchange is due to									
3.	Have re	latively	very n					89.	ine ni		nty of						
3. 4.	Have re		very n			1. Globulin 2. Fibrous protein											
3 4 80. Ke	ratin is	sa	very n	2. Fibi	ous pro	otein	The E		1COC			2					
3. 4. 3. 4. 5. 80. Ke	ratin is	sa	very n			otein I protei	n		3. Phen	olic gro	SPAN TO SERVICE	4. I	Enolic g	roup			
3. 4. 80. Ke	e ratin i s Globulir	s a	Harilo San	4. Con	jugated	l protei	The second second	90.	3. Phen For se	olic gro parati	on of p	4. I	Enolic g	roup nuclei	c aci		
3 4 80. Ke 1 3 81. Ioo	e ratin i s Globulir Histone	s a lue of	an oil	4. Con	jugated	l protei tent of	The second second	90.	3. Phen For se	olic gro paration	on of p	4. I oretein chang	Enolic g is and e resin	roup nuclei	c aci		
3. 4. 80. Ke 1. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	eratin is Globulir Histone dine va	s a lue of	an oil	4. Conshows 2. Uns	jugated the ex	l protei tent of on	The second second	90.	3. Phen For se the fol	olic gro paration lowing ina	on of p	4. I pretein chang 2. I	Enolic g is and ge resin Dowex	roup nuclei n is pre	c aci		
3. 4. 80. Ke 1. 3. 3. 3. 181. Ioc 1. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	eratin is Globulir Histone dine va Polymer	s a lue of	an oil	4. Conshows 2. Uns	jugated the ex aturati	l protei tent of on	The second second	90.	3. Phen For se the fol 1. Alum	olic gro paration lowing ina	on of p	4. I pretein chang 2. I	Enolic g is and e resin	roup nuclei n is pre	c aci		
3. 4. 80. Ke 1. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	eratin is Globulir Histone dine va Polymer	s a lue of	an oil	4. Conshows 2. Uns	jugated the ex aturati	l protei tent of on	The second second	90.	3. Phen For se the fol 1. Alum	olic gro paration lowing ina	on of p	4. I pretein chang 2. I	Enolic g is and ge resin Dowex	roup nuclei n is pre	c aci		
3 4 80. Kee 1 3 81. Ioo 1 3	eratin is Globulir Histone dine va Polymer Molecul	s a lue of risation ar size	an oil	4. Conshows 2. Uns 4. Est	jugated the ex aturati erificati	l protei tent of on on	VS1	90.	3. Phen For se the fol 1. Alum 3. DEA	olic gro paration lowing ina E cellul	on of prices	4. I pretein cchang 2. I 4. A	Enolic g as and e resin Dowex Amberli	roup nuclei n is pre	c aci		
3 4 80. Kee 1 3 81. Ioo 1 3	eratin is Globulir Histone dine va Polymer Molecul	lue of isation ar size	an oil	4. Conshows 2. Uns 4. Est	jugated the ex aturati erificati 6.1	l protei tent of on on 7.3	8.1 24.4	90. V I	3. Phen For sethe fol 1. Alum 3. DEA	olic groparation of the control of t	on of prices	4. I pretein chang 2. I 4. A	Enolic g as and ge resin Dowex Amberli	roup nuclei n is pro te	eferre		
3 4 80. Ke 1 3 11 3 1.4 17.3	Globulir Histone dine va Polymer Moleculi 2.1	lue of risation ar size	an oil 4.2 20.3	4. Conshows 2. Uns 4. Este 5.4 21.2	jugatec the ex aturati erificati 6.1 22.3	l protei tent of on on 7.3 23.3	8.1 24.4	90. 9 25.4	3. Phen For se the fol 1. Alum 3. DEA 10.1 26.1	olic groparation of the property of the proper	on of prices on one of prices on one of prices on of prices of prices on of prices of prices on	4. I pretein schang 2. I 4. A 13.1 29	Enolic g as and ge resin Dowex Amberli 14.3 30.4	roup nuclei n is pre te 15.2 31.2	16.1 32.1 48.4		
3 4 80. Ke 1 3 81. Ioo 1 3 1.4 17.3 33	eratin is Globulir Histone dine va Polymer Molecula 2.1 18.4 34.4	lue of risation ar size	4.2 20.3 36.4	4. Conshows 2. Uns 4. Esta 5.4 21.2 37.4	jugated the ex aturati erificati 6.1 22.3 38.1	I protei tent of on on on 7.3 23.3 39.3	8.1 24.4 40.3	90. 9 25.4 41.2	3. Phen For se the fol 1. Alum 3. DEA ER: 10.1 26.1 42.3	olic groparation of the paratic lowing time. E cellul 11.4 27.3 43.4	on of j ion-er lose 12.2 28.3 44	4. In pretein a change 2. I 4. A 13.1 2945.4	Enolic g as and te resin Dowex Amberli 14.3 30.4 46.3	te 15.2 31.2 47.1	c aci		

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