

كلية الطب لجان الدفعات

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{ Biochemistry – final }

1. The best discerption of the primary structure is:

- A. the localized organization of parts of a polypeptide chain.
- B. the three-dimensional structure of the protein
- C. the sequence and type of amino acid residues
- D. the number and relative positions of the subunits in a multimeric protein.
- E. None of the above

Answer: C

2. The following amino acid is:

- A. Leu
- B. Lys
- C. Val
- D. Glu
- E. Thr

Answer: C

3. What is the net charge of Cys residues in Oxytocin?

- A. -2
- B. +1
- C. -1
- D. 0
- E. +2

Answer: D

4. Which protein of the following will be denatured by heat?

- A. Immunoglobulin
- B. Elastin
- C. Myoglobin
- D. Keratin
- E. Collagen

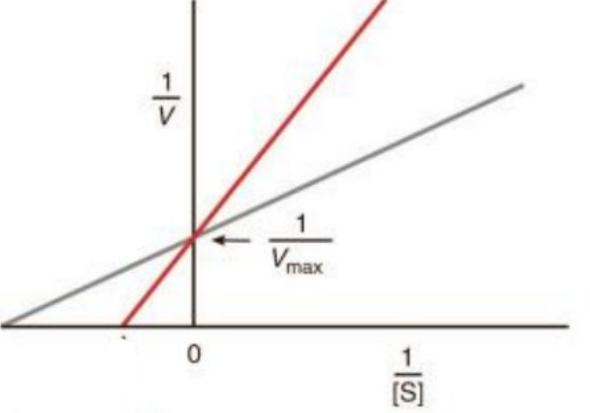
Answer: C

5. How many peptide bonds are in ADH?

- A. 7
- B. 10
- C. 9
- D. 11
- E. 8

Answer: E

6. Which of the following inhibitors act as the following blot? A. Penicillin B. Sarin C. Aspirin D. Glugose phosphate



Answer: D

7. Which is found in the cis configuration more frequently than other amino acids?

A. Pro

E. Alopurinol

- B. Gly
- C. Trp
- D. Ile
- E. Ala

Answer: A

8. What is the ratio of V to Vmax if [S]=9 Km?

- A. 1.11
- B. 0.09
- C. 1
- D. 0.9

Answer: D

9. The best description of C-reactive protein:

- A. acute-phase inflammatory protein
- B. Help in the defense against bacteria
- C. Its level reaches a peak after 2 days
- D. Undetectable in healthy individuals
- E. All of the above

Answer: E

10. The antigen binds specifically to which part of the antibody?

- A. Fc domain
- B. Fab domain
- C. CDR
- D. Hinge region

Answer: C

11. The R conformation of he	emoglobin always predominates in one of the following
tissues:	
A. Muscles	
B. Lungs	
C. Liver	
D. RPCs	
	Answer: B
12. Which of the following be	onds is not found in fibrous proteins?
A. Hydrogen bonds	
B. Phosphodiester bonds	
C. Peptide bonds	
D. Disulfide bonds	
	Answer: B
13. Newborns of lactating me	others are protected from antigens through the action of:
A. IgA	
B. IgD	
C. IgM	
D. IgG	
E. both A and D	
	Answer: E
14. Chaperons are:	
	at help in the correct folding of other proteins
	unts of a modified amino acid which is derived from:
A. Tyr	
B. Trp	
C. Tyramine	
D. Glu	
E. Asp	
	Answer: A
16. The disease that does no	t result from misfolding:
A. Alzheimer	
B. Analbuminemia	
C. Creutzfeldt-Jacob	
D. Scrapie	
	Answer: B

17. Chinese restaurant syndrome:

- A. Oxytocin
- B. Gramicidin S
- C. Enkephalins
- D. Monosodium glutamate

Answer: D

18. Manganese is required for this enzyme:

- A. Carbonic anhydrase
- B. Hexokinase
- C. Carboxypeptidase
- D. Glutathione peroxidase
- E. Superoxide dismutase

Answer: E

19. The letter that represents the peptide bonds is:

- A. A
- B. B
- C. C
- D. D
- E. E

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Answer: C

20. The cofactor which doesn't bind covalently is:

- A. CoA
- B. PLP
- C. Biotin
- D. TTP
- E. NAD⁺

Answer: E

21. What is false about modified amino acids?

- A. Trp Epinephrine
- B. Tyr Pheomelanin
- C. His Histamine

D. Glu - GABA

Answer: A

22.Choose the mismatch pair of the following:

- A. Pyridoxine lyase
- B. Thiamine decarboxylase
- C. NAD⁺ oxidoreductase

Answer: A

23. The major class of the enzyme which convert Histidine into Histamine is:

- A. Transferase
- B. Oxidoreductase
- C. Lyase
- D. Ligase
- E. Translocase

Answer: C

24. What is phosphoprotein?

- A. Simple protein
- B. Halo protein

Answer: B

25. Which protein reaches the peak after a day of myocardial infraction?

- A. CK-MB
- B. CK-MM
- C. CK-BB
- D. Myoglobin

Answer: A

26. The aromatic amino acids pair of the following:

- A. Cys Trp
- B. Trp Tyr
- C. Met Cys
- D. Tyr Pro
- E. Pro Phe

Answer: B

27. The secondary structure is characterized by:

- A. The sequence of amino acids
- B. The hydrogen bonds between R groups
- C. The hydrophobic interactions between the amino acids
- D. The hydrogen bonds between amine and carbonyl groups

Answer: D

28. Choose the wrong statement about the distal histidine in Hemoglobin:

- A. Works as a gate
- B. Stabilizes the binding of oxygen
- C. Keep the Fe in the oxidized state

Answer:

29. if the O₂ pressure in a certain tissue is 3mmHg, what will happen?

- A. The myoglobin will be partially saturated
- B. The myoglobin will be fully saturated
- C. The hemoglobin will be fully saturated
- D. Can't be determined

Answer:

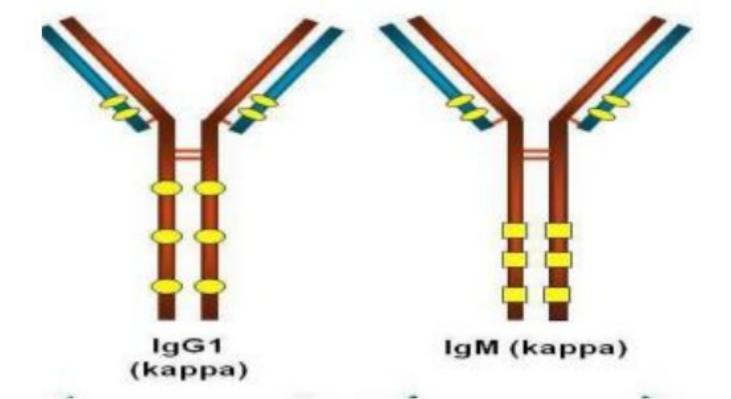
30. One of the following is not true about fibrous proteins:

- A. Glycine and proline residue are abundant in collagen, elastin and keratin proteins
- B. Disulfide bonds within keratin are the reason for curly hair
- C. Hydroxyproline in collagen is necessary for its stability
- D. Collagen is glycosylated at hydroxylysine residues
- E. Lysine is involved in crosslinking elastin molecules

Answer: A

31. The relation between these two antibodies:

- A. Idiotypes
- B. Isotypes
- C. Allotypes
- D. A+C
- E. There is no relationship



Answer: B

32. What is true about plasma proteins?

- A. They are all synthesized in Liver
- B. They are synthesized in the active form
- C. Albumin is a glycoprotein
- D. (the answer) نسيتها

Answer:

33.If the patient is suffering from Hyperalbuminemia:

He should be hydrated

34. What is true about α 1-antitrypsin? A. High amount of it will active elastase B. Synthesized primarily by the fetal yolk sac C. A tetramer D. A polymorphic protein Answer: D 35. What is wrong about the active site of enzymes? A. specific three-dimensional shape B. It's found on the surface of the enzyme C. Takes up a relatively small part of the total volume **Answer: B** 36. What is true about the active site of enzymes? There should be 3 points for binding 37. The specific function of enzymes is: Reducing the activation energy 38. The wrong mechanism of enzymes is: A. Catalysis by bond strain B. Michaelis-Menten mechanism C. Acid- base catalysis D. Covalent catalysis E. Proximity effect **Answer: B** 39. Monooxygenases are a class of: A. Isomerases B. Lyases C. Transferases D. Hydrolases E. Oxidoreductases **Answer: E** 40. The major class that catalyzes intramolecular rearrangements is: A. Ligases B. Transferases C. Oxidoreductases D. Mutases E. Translocases

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Answer: D

 41. You are working on the enzyme Y, with a Km=9, which gives a rate of 30 minutes, what is its specific activity if the enzyme's weight is 0.2 g? A. 1800 B. 900 C. 3600 D. 360 E. 600 	60 M/s after 3
	Answer: E
42. Choose the incorrect statement about ribozymes.	
A. An exception of protein enzymes	
B. Its catalytic efficiency is more than that of protein enzymes	
C. They become stronger when they bind to proteins	
D. Telomerase is an example	
	Answer: B
43. the stronger binding between the stationary phase and proteins:	
A. Earlier the elution	
B. When we increase the concentration of salt	
C. During the elution	
D. Later the elution	
	Answer: D
44. The technique that is used in pregnancy test is:	
A. ELISA	
B. Affinity Chromatography	
C. Dialysis	
D. Salting in	
	Answer: A