

BIOCHEMISTRY ARCHIVE

"FINAL"



DONE BY :
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لعلك تدعيت،
لعلك دعت،
ولعلها آتية



1) About B sheet what is the true?

- a) beta sheet consisted of one or more polypeptide
- b) beta sheet is secondary structure
- c) beta sheet is parallel or antiparallel
- d) the polypeptide chain is linking in hydrogen bond
- e) b,c,d
- f) a,b,c,d

Answer:e

2) All of the following is example about interstitial fluid except:

- a) Serum
- b) Scf
- c) Synovial

Answer :a

3) Vitamin d deficiency in children cause which disease ?

- a) Rickets
- b) Anemia
- c) osteoporosis
- d) scurvy

Answer :a

4) The normal PH of human milk is ? select one :

- a) 5.5-7
- b) 6.8-7.4
- c) 4.7-7.4
- d) 6.6-6.8
- e) 5.5-7.4

Answer:b

5) As regard eye tears , all the following sentences are true except ? Select one:

- a) Eye lubricant
- b) It become hypertonic with profound flow
- c) Have protective function against infection
- d) Protein content is 0.6 to 0.18 g/dl
- e) PH 7 to 7.6

Answer :b

6) Deformity of the bones that occurs due to vitamin D deficiency in growing children is called :

- a) Hemosidrosis
- b) Osteomalacia
- c) Osteoporosis
- d) Rickets
- e) Hemochromatosis

Answer:d

7) the lipoprotein that contain the lowest phospholipids?

- a) Chylomicron
- b) LDL
- c) HDL

Answer:a

8) Arrange the chylomicron ,V LDL, IDL,LDL from the smallest size to the largest :

- a) HDL,LDL,VLDL,Chylomicron
- b) LDL,VLDL,HDL,Chylomicrons
- c) HDL,VLDL,LDL,Chylomicrons
- D) HDL,LDL,Chylomicrons,VLDL

Answer:a

9)The apoprotein using as enzyme cofactor :

:apo c-II

10) the desired value in most adult for HDL is :

- a) 40-60
- b) 10-150
- c) 2-38
- d) less than 100

Answer:a

11) When the rate of enzymatic reaction is controlled by the amount of enzyme present, which of the following factor control the enzymatic level :

- a) The number of neutrons in the enzyme
- b) The melting point of the substrate
- C) Rate of transcription and protein synthesis

Answer:c

12) Urine may contain lactose during last third of pregnancy , it could be differentiated from glucose inurine in the diabetics by? select one :

- a) Osazon test
- b)Electrophoresis
- c)Bradford method
- d)Fehling test
- e)Benedict test

Answer:a

13) cough, headache and fever , a tinge of yellow in white of eye . All of these are seen in
of :

- a) Alzheimer disease
- b) Anemia
- c) Mad cow disease
- d) Collagenopathy

Answer:b

14) Example of primary bile acid:

- a) chenodeoxycholic acid
- b) lithocholic acid
- c) deoxycholic acid

Answer:A

15) Example of corticosteroids produced by adrenal cortex are:

- a) Cortisol
- b) Aldosterone
- c) Dehydroepiandrosterone(DHEA)
- d) All of the above

Answer:d

16) The PTH promotes Ca absorption by :

- a) PTH promotes Ca absorption by increasing blood pH.
- b) PTH promotes Ca absorption by inhibiting bone resorption.
- c) PTH promotes Ca absorption by decreasing the synthesis of Ca binding protein
- d) induce the synthesis of Ca binding protein

Answer:d

17) The only type of chromatography that use a helium as mobile phase is :

- a) gas chromatography
- b) liquid chromatography
- c) electrophoresis

Answer:a

18) What is the cause of Ehlers- Danlos syndrome?

- a) Abnormal procollagen gene
- b) reduced collagen production

Answer:a

18) which one of these is least likely to be affected by change of PH?

- a) primary structure of protein
- b) secondary structure of protein
- c) tertiary structure of protein

Answer:b

19) Which the basic principle of chromatography?

- a) Chromatography relies on magnetic fields to separate components within a mixture.
- b) Chromatography separates components based on their atomic mass.
- c) Chromatography depends on the principle of chemical reaction between components to achieve separation.
- d) the use of stationary phase and mobile phase

Answer:d

20)The similarity myoglobin and hemoglobin is :

- a) no obvious relation between them
- b) similar in both primary structure and tertiary structure
- c) different in primary structure and tertiary structure
- d) similar in primary structure but different in tertiary structure
- e)similar in tertiary structure but different in primary structure

Answer:e

Both myoglobin and hemoglobin are globular proteins with a similar tertiary structure, characterized by their ability to bind and transport oxygen. However, they have different primary structures (amino acid sequences)

21) one of the following descriptions best describes an induced fit?

Select one :

- a)Alteration of the shape of enzyme such that it is ready to accept a substrate
- b)Adopting the correct binding conformation of the substrate before entering an active site
- c)Substrate binding to an active site and the alteration of its shape
- D)adopting of the active site correct conformation by shape of enzyme and substrate alteration
- e) adopting the active site correct conformation by metal ions

Answer:c

22)All of the following are isomers of glucose except :

- a) d-ribose b) galactose c) fructose d) mannose

Answer:a

23) Which sugar can produce glucose and fructose:

- a) Lactose b) Sucrose c) Maltose d) Cellobiose

Answer:b

24) which of the following is essential amino acid :

- a)phenylalanine b) Glycine c) arginine d) proline

Answer:a

25) which process must be happen for collagen proline for maintaining connective tissue:

- a) hydroxylation of proline
- b) Deamination of proline
- c) phosphorylation of proline
- d) Glycosylation of proline

Answer:a

26) which the amino acid contains sulfur (s):

- a) cysteine
- b) Glycine
- c) Lysine
- d) serine

Answer:a

27) steroids composed of:

- A) Steroids are composed of 28 carbon atoms with three methyl groups (C27, C28, and C29).
- B) Steroids are composed of 26 carbon atoms with one methyl group (C27) but no methyl group at C28 or C29.
- C) Steroids are composed of 30 carbon atoms with no methyl groups at C28 or C29.
- d) 27 carbon atoms besides two methyl groups (C28, C29).

Answer:d

28) Cholesterol ester is:

- a) fatty acid esterified to C-3 OH
- b) Cholesterol ester is a phospholipid esterified to C-3 of cholesterol.
- c) Cholesterol ester is a carbohydrate molecule esterified to C-3 of cholesterol.
- d) Cholesterol ester is a protein attached to C-3 of cholesterol.

Answer:a

29) intrinsic factor is:

- a) glycoprotein secreted by parietal cells of the stomach
- b) Intrinsic factor is a hormone produced by the pancreas.
- c) Intrinsic factor is a type of enzyme secreted by the liver.
- d) Intrinsic factor is a neurotransmitter released by the brain.

Answer:a

30) corticosteroids produced by which of the following:

- a) Thyroid gland
- b) Adrenal medulla
- c) Adrenal cortex
- d) pancreas

Answer:c

31) polyglutamate chain removed by which of the following:

- a) folate conjugase
- b) Polyglutamate chains on folate are removed by ribonucleases.
- c) Polyglutamate chains on folate are removed by proteases.
- d) Polyglutamate chains on folate are removed by lipase

Answer:a

32) the source of short chain fatty acid is:

- a) colonic bacteria
- b) dietary fiber
- c) the small intestine
- d) the liver

Answer:a

33) iron storage in liver and bone by:

- a) ferritin
- b) hemoglobin
- c) myoglobin
- d) albumin

Answer:a

34) the amount of Ca in serum is:

- a) (4-6)
- b) (9-11)
- c) (15-18)
- d) (20-25)

Answer:b

35) Parathyroid hormone contributes in absorbing Ca ion by which of the following:

- a) Parathyroid hormone (PTH) contributes to the absorption of calcium ions by increasing the synthesis of calcitriol.
- b) PTH contributes to the absorption of calcium ions by inhibiting the synthesis of calcitriol.
- c) PTH contributes to the absorption of calcium ions by reducing the expression of calcium channels in the intestines.
- d) PTH contributes to the absorption of calcium ions by promoting the excretion of calcium in the urine.

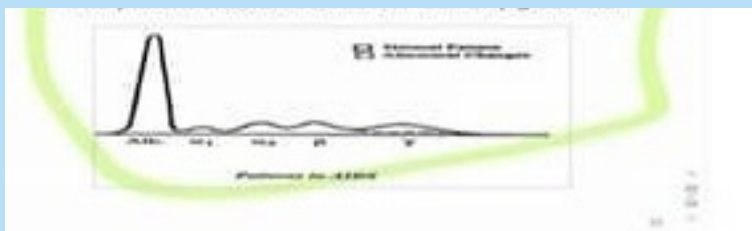
Answer:a

36) what is the suitable PH degree which activates the enzyme :

- a) PH=6.7
- b) 7
- c) 1
- d) 12

Answer:a

37) The disease is:



Answer:AIDS

38) All of the following are Trace minerals except :

- a) chloride
- b) iron
- c) copper
- d) zinc

Answer:a

39) what is the hormone that responsible for milk ejection :

- a) estrogen b) testosterone c) prolactin d) oxytocin

Answer:d

40) Which of the following is characteristic of Triacylglycerols :

- A) hydrophobic b) hydrophilic c) Polar molecule d) soluble in water

Answer:a

41) All of the following is true about arachidonic acid except:(lipid 1 slide 17 picture)

- a) Omega -3 fatty acid
b) Arachidonic acid is a polyunsaturated fatty acid.
c) Arachidonic acid is not an Omega-3 fatty acid; it is an Omega-6 fatty acid.

Answer:c

42)one of the following is a primary bile acid : (lipids 4 slide 14)

- a) chenodeoxycholic acid b) Glycocholic acid
c) Taurocholic acid d) Ursodeoxycholic acid

Answer:a

43)All of the following is true about Amino Acid except :

- a) All Amino acid is standred
b) Amino acids are the building blocks of proteins.
c) Amino acids have a central carbon atom (alpha carbon) bonded to an amino group, a carboxyl group, a hydrogen atom, and a variable side chain (R group).

Answer:a

44) which one of these vitamins antagonistic with raw egg white: (vitamins 1 slide 37)

- a) B6 b) biotin c) B6 d) vitamin C

Answer:b

45) the peptide bond happen between :

- a) Hydroxyl group from the carboxyl group with hydrogen atom from the amine group from another Amino acid.
b) Hydroxyl group from the carboxyl group with. hydrogen atom from the amine group from the same Amino acid.

Answer:a

46) one the following give a negative iodine test : (lab optimum conditions for enzyme activity)

starch with amylase dissolved in water

47) All of these factors inhibiting calcium absorption except

- a) low ph level.
- b) high ph level.
- c) high level of dietary oxalates.
- d) high level of dietary phytates.

Answer:a

وَلَا كُدْرٌ يَدُوْمُ عَلَيَّ اللَّيَالِي
إِذَا اقْتَرَنَ الْيَقِينُ مَعَ الدُّعَاءِ

فَلَا تَحْزَنُ وَبَابُ اللَّهِ رَحْبًا
وَكَمْ عِنْدَ الْكَرِيمِ مِنَ الْعَطَاءِ

يُفَرِّجُ كُرْبَةً، وَيُرِيْلُ هَمًّا
وَيَجْزِي مَا بَرًّا فَيَرِ الْجَزَاءِ