



قائمة الاسئلة 2025-04-30 04:17

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1) 1- ribose and deoxyribose differ in structure around asingle carbone, namely:

- 1) - A)C1
- 2) + B)C2
- 3) - C) C3
- 4) - D)C4

2) 2-one of the following is not an aldose

- 1) - (A) glucose
- 2) - (B)galactose
- 3) - (C) mannose
- 4) + (D) fructose

3) 3.the glycosaminoglycan that serves as anticoagulant

- 1) + (A) heparin
- 2) - (B)chondroitin sulfate
- 3) - (C) hyaluronic acid
- 4) - (D) dermatan sulfate

4) 4-the following polysaccharide is composed of B-glycosidic bonds

- 1) - (A)starch
- 2) - (B) glycogen
- 3) - (C) dextrin
- 4) + (D)cellulose

5) 5- the carbone atoms involved in the osasZone formation

- 1) + (A) 1 and 2
- 2) - (B)2 and 3
- 3) - (C) 5 and 6
- 4) - (D) 3 nd 4

6) 6- which of the following glycosaminoglycan is unsulfated

- 1) - (A) heparine
- 2) - (B)chondroitin sulfate
- 3) - (C) tkeratan sulfate
- 4) + (D) hyaluronic acid

7) 7- D-glucose and D-galactose are:

- 1) + (A) epimers of each other
- 2) - (B)enantiomers of each other
- 3) - (C) mirror emages
- 4) - (D) anomers of each carbone

8) 8-all the following are composed exclusively of glucose, except:

- 1) - (A) glycogen
- 2) - (B)starch
- 3) + (C)lactose
- 4) - (d)maltose

9) 9-inulin is:

- 1) + a-fructosans
- 2) - b)mannas
- 3) - c-glycans
- 4) - d-xylans



10) 10-which of the following is not hydrolyzed by α -amylase:

- 1) - a)starch
- 2) - b)glycogen
- 3) + c)cellulose
- 4) - d)dextrin

11) 11-glycosaminoglycans are:

- 1) - a)disaccharide
- 2) - b)homoglycan
- 3) + c)heteroglycan
- 4) - d)non of the above

12) 12-which of the following statements is true for fructose?

- 1) - a)it is an aldose sugar
- 2) - b)it is usually exist in the pyranose form
- 3) + c)it is involved in the formation of sucrose
- 4) - d)carbon 1 is the anomeric carbon atom

13) 13)the sugar residues of glycogen are:

- 1) - a)fructosans
- 2) + b)in α -(1 $\rightarrow$ 4) and α (1-6)linkage
- 3) - c)in β -(1 $\rightarrow$ 4)linkage
- 4) - d)non of the above

14) 14)which of the following is a true statement about glucose:

- 1) - a)it can not be utilized by red blood cells
- 2) + b)it has 4 asymmetric carbon atoms
- 3) - c)it is stored as starch in animals
- 4) - d)it is oxidized to form glycerol

15) 15)which of the following is anon-reducing disaccharide:

- 1) - a)galactose
- 2) - b)maltose
- 3) - c)mannose
- 4) + d)sucrose

16) 16-which of the following is aketo tetrose:

- 1) - a)xylose
- 2) + b)erythrulose
- 3) - c)fructose
- 4) - (d)sedoheptulose

17) 17-choose an aldopentose:

- 1) - a)glyceraldehydes
- 2) - b)dihydroxy acetone
- 3) - c)erythrose
- 4) + d)ribose

18) 18- α -D-glucose and β -D-glucose

- 1) - a)stereoisomer
- 2) + b)anomers
- 3) - c)ket-aldose isomers
- 4) - d)enantiomers

19) 19)the nitrogen base present in lecithin

- 1) + a)cholin
- 2) - b)ethanol amine
- 3) - c)inositol



- 4) - d)serine
- 20) the number of double bonds present in arachidonic acid
- 1) - a)1
- 2) - b)2
- 3) - c)3
- 4) ☒ d)4
- 21) one of the following is an amphipathic lipid:
- 1) - a)phospholipids
- 2) - b)fatty acid
- 3) - c)bile acids
- 4) ☒ d)all of the above
- 22) esterification of cholesterol occurs at carbon position:
- 1) - a)1
- 2) - b)2
- 3) ☒ c)3
- 4) - d)4
- 23) the precursor for vitamin D:
- 1) - a)triacylglycerol
- 2) - b)arachidonic acid
- 3) ☒ c)cholesterol
- 4) - c)phospholipid
- 24) which of the following lipids is deficient in infants with respiratory distress syndrome?
- 1) - a)sphingomyelins
- 2) - b)cardiolipin
- 3) - c)leukotriens
- 4) ☒ d)dipalmitoyl phosphatidylcholine
- 25) which of the following is the major storage and transport form of fatty acid?
- 1) - a)cholesterol
- 2) ☒ b)triacylglycerol
- 3) - c)albumin
- 4) - d)phospholipid
- 26) which of the following statement about cholesterol is true?
- 1) - a)it is saturated
- 2) ☒ b)it contains 27-carbon atom
- 3) - c)it is a major sterol of plant
- 4) - d)it contains four hexan rings fused together
- 27) which of the following lipid serves as cell receptors:
- 1) - a)phospholipid
- 2) - b)sphingomyelin
- 3) ☒ c)glycolipid
- 4) - d)glycerolipid
- 28) which of the following carbohydrate distinguishes a gangliosides from agloboside?
- 1) - a)glucose
- 2) ☒ b)N-acetylneuraminic acid
- 3) - c)N-acetylgalactose amine
- 4) - d)galactose
- 29) which ring of the cholesterol molecule contains a double bond
- 1) - a)A-ring
- 2) ☒ b)B-ring



- 3) - c)C-ring
4) - d)D-ring
- 30) 30-all the following are sphingolipid,except:
1) - a)sphingomyelin
2) - b)cerebroside
3) + c)phosphotidylinositol
4) - d)ganglioside
- 31) 31-glycerol is the backbone of:
1) + a)glycerophospholipid
2) - b)sphingophospholipid
3) - c)glycolipid
4) - d)cholesterol esters
- 32) 32-the lipoprotein particles that have the highest concentration of phospholipids:
1) - a)VLDL
2) - b)LDL
3) + c)HDL
4) - d)chylomicrone
- 33) 33-all of the following statement about lipids are true, exept:
1) - a) the are esters of fatty acids
2) - b)the have poor solubility in water
3) - c)they are source of energy
4) + d)they are polyhydroxy aldehydes
- 34) 34-all the following statement about prostglandine are true excpt:
1) - a)they are cyclic fatty acid
2) - b)they are potent biological effcetors
3) - c)they were first observed to cause uterine concentration
4) + d)the are synthesized only in prostatic gland
- 35) 35-ecosanoids is synthesized from:
1) - a)palmitic acid
2) - b-cerebronic acid
3) + c)arachidonic
4) - d)lingoceric acid
- 36) 36- the imino acid found in protein structure
1) - a)arginine
2) + b-proline
3) - c)histidine
4) - d)lysine
- 37) 37-the following is non-protien amino acid
1) - a)ornithin
2) - b)homocysteine
3) - c)histamine
4) + d)all of them
- 38) 38-the bonds in protein structure that are not broken on denaturation
1) - a)hydrogen bond
2) + b)peptide bonds
3) - c)ionic bond
4) - d)disulfide bond
- 39) 39-the reaction given by two or more peptide linkages:
1) - a)ninhydrine test



- 2) - b)xanthoprotic reaction
3) + c)biuret test
4) - d)pauley's test
- 40) 40-all amino acids found in proteins are optically active except:
1) - a)serine
2) + b)glycine
3) - c)threonine
4) - d)tyrosine
- 41) 41-which of the following amino acid is exclusively ketogenic:
1) + a)leucine
2) - b)phenylalanine
3) - c)threonine
4) - d)isoleucine
- 42) 42-in humans all of the following amino acids are essential except:
1) - a)valine
2) - b)isolucine
3) + c)glycine
4) - d)phenylalanine
- 43) 43-collagen is deficient in which of the following amino acid?
1) - a)glycin
2) + b)tryptophan
3) - c)cysteine
4) - d)methionine
- 44) 44-all of the following forces may play a role I n the formation of tertiarty structure, except:
1) - a)hydrogen bond
2) - b)disulfide bond
3) - c)hydrophobic interaction
4) + d)peptide bond
- 45) 45-which class of amino acids contain only non essential amino acids?
1) - a)aromatic
2) + b)acidic
3) - c)branched chain
4) - d)basic
- 46) 46)in proteins, β -pleated chain is an example of:
1) - a)primary structure
2) + b)secondary structure
3) - c)tertiary structure
4) - d)quaternary structure
- 47) 47-which of the following is akind of quaternary structure:
1) + a)hemoglobin
2) - b) α -helix
3) - c) β -bend
4) - d)triple helix
- 48) 48-collagen is an example of :
1) - a)nucleoprotein
2) - b)glycoprotein
3) + c)primary protein
4) - d)chromoproteins
- 49) 49-choose atriptide out of the following:



- 1) - a)oxytocine
2) - b)angiotensin
3) + c)glutathione
4) - d)bradykinine
- 50) 50)which of the following amino acids carries anet positive charge at physiological pH?
1) - a)valin
2) - b)leucine
3) - c)isoleucine
4) + d)non of the above
- 51) 51)choose anano peptide out of the followings:
1) - a)oxytocine
2) - b) vasopressin
3) - c)bradykinine
4) + d)all of the above
- 52) 52which of the following amino acids is aprecursor of allergies and inflammation?
1) - a)tyrosine
2) - b)phenyl alanin
3) + c)histidine
4) - d)tryptophana
- 53) 53-all of the below mentioned amino acid can participate in hydrogen bonding excep one:
1) - a)serine
2) - b)cysteine
3) - c)threonine
4) + d)valine
- 54) 54)all of the following amino acids are both glucogenic as well as ketogenic except"
1) - a)isoleucine
2) + b)leucine
3) - c)tyrosine
4) - d)phenyl alanine
- 55) 55)which of the following amino acids is not afibrous protein?
1) + a)collagen
2) - b)keratin
3) - c)elastin
4) - d)histones
- 56) 56) choose ametalloprotien out of the following:
1) - a)casein
2) - b)LDL
3) - c)vitelline
4) + d)carbonic anhydrase
- 57) 57)choose the correct category for milk proteins out of the following
1) - a)nucleoprotein
2) + b)phosphoprotien
3) - c)lipoprotein
4) - d)glycoprotein
- 58) 58-which of the amino acid below is the uncharged derivative of an acidic amino acid:
1) - a)cystine
2) - b)tyrosine
3) + c)glutamine
4) - d)serine



- 59) which one of the following amino acids may be considered a hydrophobic amino acid at physiological pH of 7.4?
- 1) ☒ a) isoleucine
 - 2) ☐ b) arginine
 - 3) ☐ c) aspartic acid
 - 4) ☐ d) threonine
- 60) an indole group is found in :
- 1) ☐ a) tyrosine
 - 2) ☒ b) tryptophan
 - 3) ☐ c) arginine
 - 4) ☐ d) histidine
- 61) the functionally active form of vitamin D:
- 1) ☐ a) cholecalciferol
 - 2) ☐ b) ergocalciferol
 - 3) ☐ c) dehydrocholesterol
 - 4) ☒ d) calcitriol
- 62) which of the following coenzyme is not derived from vitamin:
- 1) ☐ a) CoASH
 - 2) ☐ b) TPP
 - 3) ☐ c) pyridoxal phosphate (PLP)
 - 4) ☒ d) coenzyme Q
- 63) a deficiency of vitamin B12 causes:
- 1) ☐ a) scurvy
 - 2) ☐ b) rickets
 - 3) ☒ c) pernicious anemia
 - 4) ☐ d) beriberi
- 64) rickets is due to deficiency of :
- 1) ☒ a) vitamin D
 - 2) ☐ b) vitamin A
 - 3) ☐ c) vitamin C
 - 4) ☐ d) vitamin B1
- 65) biotin is involved in :
- 1) ☐ a) oxidation- reduction
 - 2) ☒ b) carboxylation
 - 3) ☐ c) decarboxylation
 - 4) ☐ d) dehydration
- 66) antihemorrhagic vitamin is:
- 1) ☐ a) vitamin A
 - 2) ☐ b) vitamin E
 - 3) ☒ c) vitamin K
 - 4) ☐ d) vitamin D
- 67) which of the following vitamin is required for collagen synthesis:
- 1) ☐ a) pantothenic acid
 - 2) ☒ b) ascorbic acid
 - 3) ☐ c) nicotinic acid
 - 4) ☐ d) folic acid
- 68) pellagra occurs due to deficiency of:
- 1) ☐ a) biotin
 - 2) ☐ b) pantothenic acid



- 3) ☒ c)niacin
4) ☐ d)folic acid
- 69) 69-pyridoxal phosphate is a coenzyme for the reactions, except:
1) ☐ a)transamination
2) ☐ b) deamination
3) ☐ c)decarboxylation
4) ☒ d)oxidation-reduction
- 70) 70- precursor of CoA is:
1) ☐ a)folic acid
2) ☐ b)riboflavin
3) ☐ c)thiamine
4) ☒ d)pantothenic acid
- 71) 71-berberi is caused by a deficiency of:
1) ☒ a)thiamine
2) ☐ b)threonine
3) ☐ c)thymine
4) ☐ d)tyrosine
- 72) 72-all of the following vitamins have antioxidant property, except:
1) ☐ a) β -carotene
2) ☐ b)ascorbic acid
3) ☐ c)tocopherol
4) ☒ d)cholecalciferol
- 73) 73-increased prothrombin time is observed in the deficiency of:
1) ☒ a)vitamin K
2) ☐ b)vitamin A
3) ☐ c)vitamin B
4) ☐ d-vitamin B12
- 74) 74-both folic acid and methylcobalamine are required in:
1) ☐ a)phosphorylation
2) ☐ b)deamination
3) ☒ c)methylation of homocysteine to methionine
4) ☐ d)conversion of pyruvate to acetyl-CoA
- 75) 75-thiamine pyrophosphate is required for the following enzymatic activity:
1) ☐ a)hexokinase
2) ☒ b)transketolase
3) ☐ c)transaldolase
4) ☐ d)glucose-6-phosphate