Shagaf

Biochemistry Mid

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Q1. Which of the following sugars will give positive results in the Molisch, Benedict, Barfoed, and Seliwanoff tests?

A. Glucose
B. Fructose
C. Sucrose
D. Maltose
Select the correct answer:
1. A only
2. B only
3. A and B only
4. B and C only
5. B and D only

Ans: 2

Q2. Which of the following tests is used to distinguish reducing monosaccharides from other carbohydrates?
A. Molisch Test
B. Benedict's Test
C. Barfoed's Test
D. Seliwanoff's Test

Ans : c

Q3. Which of the following describes a coiled structure in a single polypeptide chain?
A. Beta sheet
B. Alpha helix
C. Random coil
D. Tertiary structure

Ans : b

Q4. All of the following is consider as glucose derivatives expect?
glucoraic
B- glucoanic
C- glycerin
D- sibtol
E -glucosamine

Ans : c

Q5. All of the following about Lactose Intolerance is true expect
A- deficiency in Lactase enzyme
B- deficiency in colon bactera
C-disturbances nausea, cramps and diarrhea
D- is treated by give children LF

Ans : b

Q6. Th steroisomer which different in all chiral center will
A-Epimer
B-anomer
C- Enatomers
D- isomer structure

Ans : c

Q7. If fructose tested in a polarimeter causes the plane of polarized light to rotate counterclockwise, which of the following is true
.A. The fructose must be L-fructose
.B. The fructose is optically active and described as (-) or (l)
.C. The fructose is optically inactive
.D. The fructose must be D-fructose

Ans : b

Q8. In single polypeptide chain contain hydrogen bonde between sindchains The structure between peptide bond will be
A-secandary structure
B- quaternary structure
C- tertiary structure
D- primary structure

Ans : c

Q9. After the cyclic surge formation the carbonyl carbon will be converted to

1. Ketonic group
2. Carboxylic group
3. Alcoholic carbon
4. Anomeric carbon

Ans : d

Q10. For solutions and buffers, Choose the wrong statement

A. in solution the solvents can be gases
B. All buffers are solution
C. Solutions are non-homogeneous mixture
D. Solutions made up of solvent and solutes
E. A buffer is solution with a constant PH

Ans : c

Q11. Tow sugar have mirror image but can't be superimposable

1. Anomers
2. Conformers
3. Enantiomers
4. Epimer

Ans : c

Q12. Solution with pH= 8 is ..... a solution with pH=10

1. 100 times more basic
2. 2 times more basic
3. 2 times more acidic
4. 10 times more acidic
5. 100 times more acidic

Ans : e

Q13.The polysaccharide is hetero, natural, linear and mainly found in mast cells ?

1. Glycogen
2. Hyaluronic acid
3. Dermatan sulphate
4. Heparin
5. Chitin

Ans: d

Q14. One group of these sciences can lead to the under of the basic of biochemistry?

1. Biology , chemistry, physiology and anatomy
2. Chemistry, pharmacology, biology and pathology
3. Anatomy, physiology, physics and immunology
4. Anatomy, physiology, physics and immunology

Ans : A

Q15. Which of the following is not responsible for protein denaturation ?

1. Heat
2. Charge
3. PH change
4. Chaperone
5. Organic acid

Ans : d

Q16. Which is responsible of 3D structure of protein?

1. Chaperone
2. Inter hydrogen bond
3. Amino acid sequence
4. Peptide bond

Ans: c

Q17. All of these are function of the protein except?

1. Transport molecules
2. Work as receptors
3. Catalyze specific reaction
4. Contains genetic material

Ans : d

Q18. In an alpha helix, choose the correct statement?

1. There are usually many Glycine residues present
2. Side chain residues point up and down the axis of the helix
3. There are 3.6 residues per helical turn
4. The oxygen of the carbonyl carbon in a peptide bond points out toward the exterior of helix

Ans : c

Q19. The sequence of amino acid (alanine, valine, lysin tryptophan,glycine,glutamate,proline,leucine) using the one code system is?

1. AVKWGEPL
2. AVKWTGEP
3. AVKLWTGP
4. ALVKWTGE

Ans: A

Q20. Which one of this can make polar covalent bond?

A.CL&H

B.K&Na

C.P&C

D.Mg&Ca

E.P&H

Ans: A

Q21. The Henderson Hassel Blach :

1. Show that ph equal to pka in all conditions.
2. Ph is less than pka.
3. Relative between ph ,pka,acid concentration,conjugate base concentration
4. Ph is more than pka

Ans:c

Q22. The stronger the acid (choose the correct answer) ?

1. The higher the Ka
2. The higher the OH concentration
3. The lower the ka and pka
4. The higher the ph
5. The higher the pka

Ans:A

Q23. If the Normality =3 of the H2CO4, the morality is?

1. 2
2. 3
3. 1.8
4. 1.5

Ans:D

Q24. For 6N of H2SO4 the morality of this solution is to?

1. 1
2. 3
3. 12
4. 1.5
5. 18

Ans: B

Q25. How you can distinguish between glucose,fructose?

1. Seliwanoff test
2. Lodine test
3. Barford's test
4. Benedict's test
5. Molisch test

Ans:A

Q26. One of the following Amino acid is found in turns and known as the breaker :

1. Glycine
2. Alanine
3. Tyrosine
4. Valine
5. Uncharged glutamate

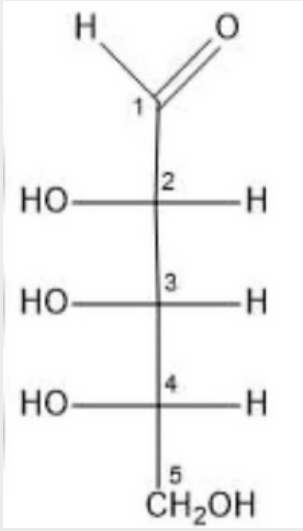
Ans:A

Q27. One of the following is correctly matched:

1. Sucrose-milk sugar
2. Glucose-blood sugar
3. Lactose-table sugar
4. Fructose-malt sugar

Ans:B

Q28.IN THE BELOW PICTURE OF RIBOSE)) How much of stereoisomers?



1. 2
2. 6
3. 32
4. 8
5. 16

Ans:4