

DENTISTRY 2017 - UNIVERSITY OF JORDAN

BIOCHEMISTRY

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Midterm exam 2018

slide



sheet



مكتبة تلاع العلي - مقابل بوابة كلية الزراعة عمارة رقم 235

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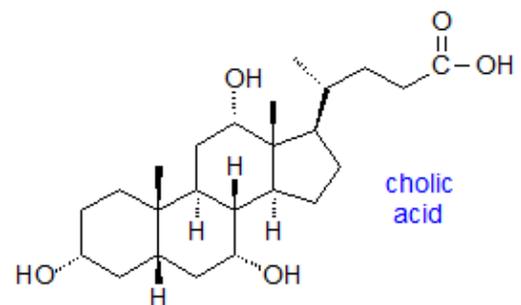
1) Which one of these is not an acute phase protein?

- a- Alpha antitrypsin
- b- CRP
- c- Immunoglobulin
- d- Fibrinogen

The is Answer >> immunoglobulin

2) What is the function of the adjacent molecule?

Answer >> Digestion the fat in the small intestine (bile acid)



3) The amino acid that is responsible for cross linking in elastin is?

Answer >> Lysine // note in the lecture both alanine and lysine were considered as cross linking amino acids, but the answer in the exam only contained lysine.

4) Untreated diabetic patient will have?

- a- Metabolic alkalosis
- b- Metabolic acidosis
- c- Respiratory alkalosis
- d- Respiratory acidosis

The Answer IS >> B

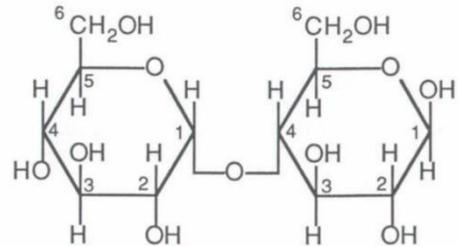
5) If 10 mmoles of KOH were dissolved in 1 L of water. What will be the pH of the solution?

- a- 2
- b- 1
- c- 3
- d- 12

The Answer is >> d

6) Which of the following is correct about this structure?

- a- It is lactose
- b- It contains B-glucose
- c- It is a non-reducing sugar
- e- This is a beta-(1-4) linkage



The answer is >> E

7) An essential fatty acid :

The answer is >> linolenic

8) The function of the proteins that exist on the surface of the hemoglobin is ?

Binding subunits

9) One of them doesn't react with tollens solution ?

- A- Cellulose
- B- Glycogen
- C- Sucrose
- D- Amylobectin

The answer is >> C

10) Which one of these pairs can form hydrogen bond with each other ?

The answer is >> Alcohol and water

Wrong answers have ketoses and aldoses

11) What does deficiency of vitamin c cause ?

The answer is >> Deficiency of hydroxyproline

12) Why people who have analbuminemia will have mild/moderate edema and not severe?

The answer is >> other proteins are produced at high levels as a compensation for the loss of albumin.

13) Which of the following gives a good protein buffer system:

- A) His
- B) Arg
- C) Asp
- D) Asn
- E) all of the above

The answer is >> A

14) All these statements are true about the definition of native conformation except

The answer is >> all proteins need chaperon to fold

15) One of them Isn't acid/conjugate base pair :

The answer is >> $\text{CH}_3\text{CH}_3 / \text{CH}_2\text{CH}_2$

16) What is the function of distal histidine ?

lowering the affinity of CO

17) Which of the following statement is wrong:

the answer is >> The oxytocin receptors are limited to the wall of uterus

18) H-disease causes :

The answer is >> hemolytic anemia

19) One of these statements are true about proline :

Proline can not make hydrogen bond when it binds to a peptide

20) Which of the following is a reduced sugar?

- A. glucose
- b. Fructose
- c. sucrose
- d. galactose

The answer is >> B

21) Cellulose fibres are healthy because:

- A. They are carcinogenic
- B. They allow more cholesterol absorption
- C. They contain unsaturated fats
- D. They bind to toxic substances to decrease their absorption

The answer is >> D

22) In a vegetarian jelly, the manufacturer used a gelling material which:

- A. Is a polymer of glucuronic acid
- B. Has animal cell organs
- C. Has carboxyl on C6
- D. Has a five membrane ring structure

The answer is >> A

23) Glycosaminoglycans are characterised by all of the following features EXCEPT:

- A. The basic unit is a repeated disaccharide
- B. At least, one sugar has an amino group
- C. At least, one sugar is negatively charged with acidic group
- D. The sugars are derived from glucose or fructose
- E. It is attached to proteins forming proteoglycans

The answer is >> D

24) Which one of the following causes methemoglobin reductase?

The answer is >> A deficiency of the reductase enzyme.

25) Smoking causes :

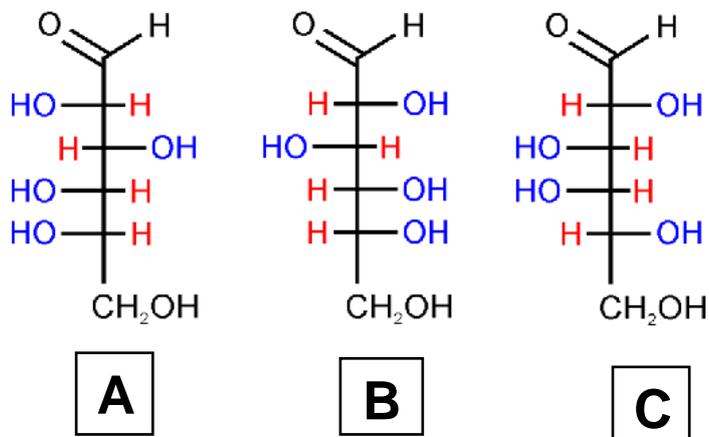
Inhibition for alpha- antitrypsin

26) What is the PH of gly ?

- a- 12
- b- 3
- c- 6
- d- 4

The answer is >> C

27) Which structure is an enantiomer for d-glucose ?



The answer >> A

28) Which of the following is a reducing sugar?

- A. glucose
- b. Fructose
- c. sucrose
- d. galactose

The answer is >> C

29) What is the test that is used to diagnose diabetes?

- a- HBA1c
- b- HBb
- c- HBc
- d- HBs

The answer is >> A

30) Which one doesn't contain amide bond?

The answer is >> phosphatidylserine

31) Which one of these structure contains an ester bond?

The answer is >> Platelet-activating factor

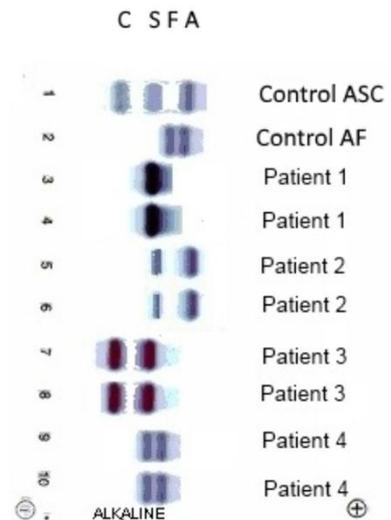
32) Wrong about HbM :

the answer is >> It's unstable haemoglobin

33) Patient no 4 is:

- A- Adult with sickle cell trait
- b- Neonate with sickle cell trait and HPFH
- C- HBCS

The answer is >> B



34) Amino acid that doesn't bind to oligosaccharide:

Lysine – not sure about this question bs ktbna heek ll e7tyat

35) We don't remember the question but the answer was :

Binding of CO to heme will lower the affinity of O₂ to heme, y3ni el affinity ll oxygen r7 t2l lma trtbt el heme bl CO

O bs wallah,,,, good luckkk