بسم الله الرحمن الرحيم

BIOCHEMISTRY (Midterm- 2021)

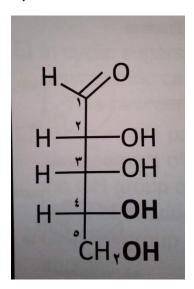
إعداد:



1	- The incorrect statement about disulfide bond is:
a)) It can occur intramolecule or intermolecule.
b) It's a covalent bond.
c)	It can occur only on intramolecule
ď) It occurs between two closely cysteine residues
e)) the oxidation of two cysteine produce cystine
	the molecule gives positive reaction in seliwanoff's test and negative tion in Barfoed and Benedict test is a:
a) G	flucose
b) maltose
c)) Sucrose
d) lactose
e)) fructose
	- when you are in lab and use micropipette, you will change the tip E: ((if you working in a sterile conditions))?
\mathbf{a}) change your sample
b) touches the flask
c)) touches your hand
ď) All of above statement
e))
4	- which of them form the covalent bond:
a)) P & H
) K & Na

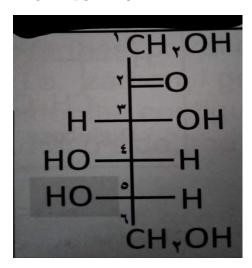
c) P & Cl
d) H & Cl
e)
5- Which of the following is not of lactose intolerance:
a) Bloating
b) diarrhea
c) headache
d) abnormal cramps
e)
6- All of the following is alpha amino acid except:
a) valine
b) Isoleucine
c) alanine
d) Phenylalanine
e)
7- A protein which has a sufficient of glycine and Proline is a/an:
a) Collagen
b) Myoglobin
c) keratin
d) Actin
e)

- a) 4
- b) 6
- c) 8
- d) 10
- e) 12



9-This sugar is (in picture)?

السؤال بدون خيارات



a)
b)
c)
d)
e) can not specified
10- The sequence of amino acid [alanine - valine - lysin - tryptophan - glycine - glutamate - proline - leucin] is?
 a) AVKEQGWPL b) c) d) 11- The folding process depends on all of them except:
a) temperature
b) Charge
c) Ph degree
d) Acid solvent
e) Chaperones
12- Who is responsible of 3D structure of protein:
a) Peptide bond
b) Amino acid sequence
c) Inter hydrogen bond
d) Chaperons
e)
13- All of these is function of the protein except:

a) Transport molecules b) Work as receptors c) Catalyze specific reactions d) Protection from invaders e) Contains genetic material 14- The functional group (COOH) is: a) Amine group b) Phosphate group c) Aldehyde group d) Hydroxyl group e) Carboxyl group 15- Tow sugars have a mirror images but cannot be superimpssible: a) Epimers b) Enantiomers c) Conformers d) Anomers e) diastereomers 16- Dextrose is: a) commerically name of galactose b) It is disaccharide c) It is hexoses sugar e) dextrorotatory

17- All of them can be rotated except:	
a) Proline	
b) Glycine	
c) Serine	
d)	
e)	
18- All of them is alpha amino acids except:	
a) Serine	
b) Phenylalanine	
c) Glycine	
d) Proline	
e) GABA	
19- If you have an acid with Ph = 6.5, acid concentration = 0.32, conjugate concentration = 0.32, the pka is:	
•	
conjugate concentration= 0.32 ,the pka is:	
conjugate concentration= 0.32 ,the pka is: a) 6.5	
conjugate concentration= 0.32 ,the pka is: a) 6.5 b) 4.3.	
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conjugate concentration= 0.32 ,the pka is: a) 6.5 b) 4.3. c) d) e) 20- Which one of this can make polar covalent bond:	

c)) P & C
d) K & Na
e) Cl & H
2	1- The henderson hasselbalch:
a) show that ph equal to pka in all conditions
b) Ph is more than pka
C)) Ph is less than pka
) Relative between ph, pka, acid concentration , conjugate base oncentration .
e)
2	2- The best buffer occurs when:
a) Conjugate base concentration = weak acid concentration
b) Ph =7
C)) Ph = 7.4
d) Pka > ph
е) Pka = 1
	3- Which of these proteins is the second in the chromatography (gel ransmission):
a) Protein M = 65,000
b) Protein M = 145,00
C)) Protein M = 24,000
d) Protein M = 350,00
е) Protein M = 33,000

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وصلنا السؤال بصيغة أخرى ::::
Which of these molecules are second eluted in exclusion gel
chromatography?
الجواب كان ثانى اكبر وزن يعنى بنرتب الارقام من الاكبر للاصغر وبنختار الرقم الثاني
,,,,,,,,,,,,
24- Molisch test reagent is:
  a) Naphthol
  b)
  c)
  d)
  e)
25- How you can distinguish between glucose, fructose, and sucrose:
a) Barford's test
b) Benedict's test
c) lodine test
d) Seliwanoff test
e) Molisch test
26- One of these symptoms are not caused by glucose intolerance:
   a) Headache
  b)
  c)
  d)
   e)
27- Which of the following is true?
   a) H-bond is roughly parallel to the a-helix
   b)
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c)
d)
e)
28- Which of the following is not a derivative from tyrosine?
a) Serotonin b),
c) ,
d) ,.
e) ,
29- All amino acids are alpha except:
Alanine
30- Glycogen and starch?
Starch can be linear but glycogen is branched
31- The anomer carbon is originated from:
Carbonyl carbon
32- At which of the following , both functional groups of the amino acid are fully protonated:
PH=1
33- L-iduronic acid exists in:
Heparin and dermatan
34- Antiparallel b sheet is more stable than parallel sheets because the latter:
Have less hydrogen bonds than antiparallel
35- Less stable?
Oh group is alpha and axial position

36- Genetics?

Is the study of nucleic acids

37- Which of the following is standard amino acid?

Phenyl alanine

38- Regarding phenylketonuria All true except:

It's characterized with high levels of tyrosine

- 39- Very active area of research by biochemists:
 - a) lipidomic and glycemic
 - b) pharmacogenetics and genomic
- 40- in colectomy we use ...?

Carcinoembryonic

41- one of the following clinical biochemistry:

diagnosis .theraphy and treatment من ضمن الخيار مكتوب

- 42- when you in lab and the acid splatters into your hand what you should do:
 - a) water
 - b) weak base
 - c) natural soap

43- you will carry 155 micl, what pipette will you use?

20-200micropipettes

44- for 6N of H2so4 the molarity of this solution is equal to:

3

45- picture and the OH is left handed side:

L- suger

46- the concentration of acid ... is .35 and the conjugate base is .35 and the PH is 4.6 calculate the pka :

4.6

47- one of the following is not true about phenylketonuria:

cause mental disorder because accumulated of tyrosine

48- When you heat up a solution in the lab, in which direction will you place the opening of the test tube?

In a direction where there is no one

أسئلة غير كاملة::

1-... في سؤال غريب من محاضرة الانترو تاعت د . سمير حاط مجموعة من الاختصاصات ، وبيسأل شو هو التخصص اللي بيهتم فيه الجيموم البشري

. وكل الخيارات كانت موجودة في السلايد تاع الجينوم الشري كخيارات

طبعا مش متذكر نص السؤال بس هي ترجمته وهي معناه

.....

-2

وبدك اياك تطلع ال Normality في سؤال كمان على اللاب ، مباشر ، كان معطيك ال Molarity

وال1.5 H2SO4 ، وال Normality = اذكر كان المركب

Molarity وبده ال

ما جاب عليه ولا سؤال delution ال

ي سؤال كان على البروتين انا مش متذكره بالضبط صراحة ، بيجوز متذكر شيء مر
ي منذكر موضوعه ، بسسال عن في المنظومة بالمنظمة المنظمة المنظم
اعتقد هیك اسمه Ribocleolus enzyme
لا اذكر شيء آخر عنه
••••
- في سؤال عن الهيدروجين بوند ، حط مجموعة عبارات وا