

Course No: DMEC 1303
Course Title:
Bio-Chemistry
Date: 29 /07 /2013
No. of Questions: (5)
Time: 1 hours
Using Calculator (No)

University of
Palestine

Summer Course
Exam
2012/2013

Instructor Name: Mr. Kamal Jarbou
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)
Total Grade: 20

Question I. True Or False (5 Marks)

1. Photosynthesis is how plants make their starch ()
2. Fats have higher energy content than carbohydrates ()
3. Prostaglandin control inflammation ()
4. Fats are water soluble ()
5. Fats are important because they absorbed some vitamins like A,D,E, K ()
6. Some simple lipids are waxes, triglyceride ()
7. Heparin is natural anticoagulant of human blood ()
8. Alkynes' are saturated organic compounds ()
9. Compounds lipids contain (phospholipids, glycolipids, sulpholipids) ()
10. Monosaccharide in general have sweet taste ()

Question II. Choose the correct answer (5 Marks)

1. Cellulose is used in diabetes diet because :
 - a) It has low content of energy
 - b) It does not hydrolyze to give glucose
 - c) Has a sweet taste
 - d) None of the above
2. Lactose is a reducing sugar because :
 - a) It hydrolyze into α -glucose + β -galactose
 - b) We get it from diary product
 - c) Because it contains Aldehyde functional group when hydrolyzed
 - d) It is a Disaccharides
3. Cholesterol is:
a . Derived lipid b. Compound lipids c . Simple lipid . d. None

4. Hydrolysis of Maltose gives:

- a) α -glucose + β -galactose
- b) α -glucose + α - glucose
- c) α -glucose + β -fructose
- d) α -glucose + α -galactose

5. Starch has content of

- a) Phenyl hydrazine + Carboxylic acid
- b) Amylose + Amylopectin
- c) Alcohol + Ester
- d) Anisole + Protein

6. Prostaglandin E_1 , E_{2a}

- a) Can lower blood pressure
- b) Can used in diets
- c) Gives sugar essential for energy
- d) A test to differentiate between disaccharide and monosaccharide

7. Amine has functional group

- a) OH
- b) $CONH_2$
- c) CHO
- d) NH_2

8. Lipoprotein are found in

- a) Pancreas
- b) Brain
- c) Cell membrane
- d) Liver

9. Hexoses contain

- a) Six carbon atoms
- b) Three carbon atoms
- c) Four carbon atoms
- d) Five carbon atoms

10. Lipids in general have

- a) High solubility in water
- b) No solubility in water
- c) Low solubility in water
- d) None of the above

Question III.

Explain the Osazone formation (The purpose, the reagent & result (2.5Marks)

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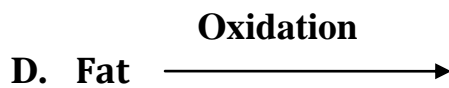
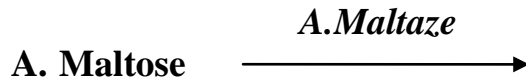
Question IV.

Starch has low contents explain how to differentiate between them as a test (2.5 Marks)

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Question V.

Complete the following reactions (5 Marks)



*End of Questions
Good Luck*