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| Salahaddin University–Erbil | Final Exams  2021 - 2022 | Module: | Biochemistry |
| College of Basic Education | Stage: | Third |
| Department: General science | Round: | First |
| Date: 19-5-2022 | Time: | 2 Hours |

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| **Q1: A/** Explain the formation of carbohydrate support your answer with equation  **(6 mark)**  **B/** Write two important or function of each of the following :- **(9 mark)**  1-Biochemistry 2- Protein 3- Lipids  **Q2/ Chose the best answer for the following blanks :- (10 marks)**  1-The ---------is the structural unit of living systems .  a-carbohydrate b- lipids c- protein d- cell  2-The bimolecular which consist of poly hydroxy aldehyde or ketones is ------------.  a- protein b- carbohydrate c- lipids d- amino acid  3-An example of D-keto hexose is -----------.  a-lactose b-glucose c- fructose d-ribose  4- Acidic amino acid have aside chain with----------and an example of it is ---------.  a-carboxylate group, serine b-hydrocarbon group, alanine c- amino group,histidin  d-polar group,serine  5-The interaction between R group in tertiary 3o structure are ---------.  a-hydrogen bonding b-ionic bonding c-di sulphide bond d- all of them  6-Insullin is an example of ---------protein .  a-structural b- hormonal c- storage d- transport  7-The description of Linolic acid structure is ------------.  a-18:1 cis D 9 b-18:0 c- 18:2 cis D 9,12 d- 18:3 cis D 9,12,15  8-Hem group is a non-protein part of hemoglobin which is called --------.  a-cofactor b- coenzyme c- organic group d- all of them  9- Inulin is ------------carbohydrate .  a-oligo saccharide b- mono saccharide c- poly saccharide d- di saccharide  10- Folding, bending and twisting all are patterns of ----------.  a-Primary structure b- secondary structure c-tertiary structure  d- quaternary structure  Q3/ A- Write the( N-V) of blood cholesterol and then write the diseases which  causes increasing This value . **(6 marks)**  B- Compare between the following just in two point . **(9 marks)**  1-Cellulose and chitin . 2-Amylose and amylopectin  3-peptide bond and glycosidic bond  Q4/ Draw the structure formula of the following compounds . **(10 marks)**   1. Maltose 2- β-D-galactose 3- polar residue amino acid 4- cholesterol 5- lecithin   **Good luck**  **Lecturer**  **Snowber Mohammed Ahmed** |