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Student name:
Computer No.:
Section:
Serial No.:

Section FA/Saturday 2-5

Mid Term Molecular Biology Laboratory Exam

Question One:

Complete the following table by the identification of each un known and choosing the suitable option for each:

Un Known models	Suitable answers	Options
1-Slide shows glycogen granules		1. non-covalent bonds
in thethe liver cells	4	2. Denaturation
2- Experiment shows the effect		3. Type of lipid.
of temperature on the protein.	2	4.Poly saccharides
3- Slide shows protein hemoglobin		5. Pigment that transfers oxygen
in the red blood cells.	1 5	6. Coagulation
4- Experiment to detectthe		7. Contains a steroid nucleus
cholesterol in samples	3 7	8.Animal starch. 9. Building blocks is Nucleotide

Question Two:

Give a reason	1:
	ection of Monosaccharides experiment we add 5 drops of HCl to sucrose solution: to hydolyse sucrose into glucose and fructose
	condary structure of the protein: results from Hydrogen (H)-bonding of the poly-peptide chain
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Student name:	
Section:	
Serial No.:	

Section Monday 11-2

Mid Term Molecular Biology Laboratory Exam

Question One:

Complete the following table by the identification of each un known and choosing the suitable option for each:

Un Known models	Suitable a	nswers	Options
1-Slide shows islets of Llangerhans	3	9	1. Building blocks of protein
in the pancreas	3	9	2. Denaturation
2- Experiment to detect the pryimidines nitrogen base in nucleic acid	4	7	3. Type protein.
F-3			4. Part of Nucleotide
3- Slide shows starch granules	6	6 8	Tart of Tructeoffice
			5. Contain Amine group (NH ₂)
4- Experiment to detectionof			6. Nutritional Polysaccharides
amino acids Cyseine and Methionine	1	1 1	7. T,C, U.
	1 5	8. Poly saccharides	
			9. Secrete insulin hormone.

Question Two:

Give a reason:

1. Formation of the Globular protein that dissolves in water.

There are 3 main types of chemical bonds that contributes to the formation of tertiary structure: H-bond, Ionic bond and disulfide bond (-S-S-), which result in formation of a Globular protein that dissolves in water (soluble)

2.	We use yeast in Sucrose experiment:
	To Prepare invertase enzyme extract by grinding 10 gm of yeast with 5 ml distilled water
	and table sugar



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Section Monday 2-5

Mid Term Molecular Biology Laboratory Exam

Question One:

Complete the following table by the identification of each un known and choosing the suitable option for each:

Un Known models	Suitable answers	Options
1-Slide shows mucus in the		1. T,C, U.
intestine	2	2. Poly saccharides
2- Experiment shows the effect		3. non-covalent bonds.
of temperature on the protein.	5 9	4. Glycosidic bond
3- Slide shows protein hemoglobin	3 9	5. Denaturation
in the red blood cells.		6. Part of Nucleotide
4- Experiment to detect the	3 8	7. Animal starch
pryimidines nitrogen base in nucleic acid	1 6	8. Pigment that transfers oxygen
		9. Coagulation

Question Two:

Give a reason:

1. Sometimes function of protein is lost by adding strong acid to the protein or by heating it: Some factors affects the nature of proteins and can change structure of proteins. Factors like high temperature, exposure to some chemicals causes denaturation of proteins, function of protein is lost.

2. The secondary structure of the protein:	
It results from Hydrogen (H)-bonding	of the poly-peptide chain
•	



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in the		2. Denaturation
2- Experiment shows the effect		3. Type of lipid.
ofon the		4.Poly saccharides
3- Slide shows		5. Pigment that transfers oxygen
		6. Coagulation
4- Experiment to detect		7. Contains a steroid nucleus
		8.Animal starch.
		9. Building blocks is Nucleotide
Question Two: Give a reason: 1.In detection of Monosaccharides	s experiment we add	5 drops of HCl to sucrose solution:
2. The secondary structure of the p	rotein:	
		• • • • • • • • • • • • • • • • • • • •



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Question One:

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1-Slide shows		1. Building blocks of protein		
in the		2. Denaturation		
2- Experiment to detect		3. Type protein.		
		4. Part of Nucleotide		
3- Slide shows		5. Contain Amine group (NH ₂)		
		6. Nutritional Polysaccharides		
4- Experiment to detection		7. T,C, U.		
		8. Poly saccharides		
		9. Secrete insulin hormone.		
Question Two: Give a reason: 1. Formation of the Globular protein that dissolves in water.				
2. We use yeast in Sucrose experiment:				



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4-Experiment to detect		7. Animal starch		
		8. Pigment that transfers oxygen		
		9. Coagulation		
Question Two: Give a reason: 1. Sometimes function of protein is lost by adding strong acid to the protein or by heating it:				
2.The secondary structure of the protein:				