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University of Salahaddin	Subject: Cell Biology (Theory)
College of Science	Stage: 3 rd Stage
Chemistry Department	Time: 2 hours
2 nd Trial	Date:/ / 2024
Q3 / A/ Choose the correct answer of the following (Multiple Choice Que	
1. The nuclear lamina is composed mainly of:	14 MARKS
a. Collagens.	
b. Microtubules.	
c. Phospholipids.	
d. Intermediate filaments.	
2. What is the chemical term for DNA and RNA?	
a) Polysaccharides.	
b) Nucleotides.	
c) Monomers.	
d) Polypeptides.	
3. Which term describes the complex of DNA and proteins in the nucleus	s?
a) Nucleosome.	
b) Chromatin.	
c) Ribosome.	
d) Nucleolus	
4. What are the two main outcomes of the cell cycle?	
a) DNA replication and transcription.	
b) Formation of new organelles and cell growth.	
c) Cell division and the production of daughter cells.d) Southering of participation and linit membranes.	
 d) Synthesis of proteins and lipid membranes 5. What is the primary function of recursion calls? 	
5. What is the primary function of vacuoles in cells?a) DNA replication	
a) DNA replication.b) Energy production.	
b) Energy production.c) Storage.	
d) Cellular respiration.	
6. Where are ribosomes located in eukaryotic cells, besides floating in the	e cytosol?
a) Nucleus.	
b) Mitochondria.	
c) Endoplasmic reticulum.	
d) Golgi apparatus.	
7. Where is the nucleus often located within a cell?	
a) At the cell membrane.	
b) In the cytoplasm.	
c) Near the endoplasmic reticulum.	
d) In the center of the cell.	
Q3/ B: Give the following reasons:	
1. The Chloroplasts are green-colored organelle.	6 MARKS
 The second phase in an interphase of the cell cycle called S phase. 	

Q4/ A: Briefly write about how each of the following functions:	10 MARKS
1. RER and SER membrane.	
2. Centrioles.	
Q4/ B: Enumerate each the following:	14 MARKS
1. Checkpoints for cell cycle control.	
2. Distinct compartments of Structure of Nuclear envelope.	
Q4 / C: Give ONE example for each:	6 MARKS
1. A eukaryotic cell with multi nuclei.	
2. An organelle contains rRNA molecule type.	

Good Luck

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