Course No: CON 5311 Course Title: General Biology

Date: 09-11-2013 No. of Questions: (4) Time: 1 hour

Using Calculator (No)

University of Palestine



Midterm Exam 2013-2014 Total Grade: 20 Instructor:Dr. Essameddin Elzatma
Student No.: _____
Student Name: ____
College Name: Dentistry
Dep. / Specialist: ____

Using Dictionary (No)

Q1: Multiple choice (5 Marks)

1- Which of the foll A- diffusion	0	• • •	e transport? ocytosis	D-facilitated diffusion
2- Which of the foll A- Na ⁺ / K ⁺ pump	~ ~	_		D- all of these
3- All of the followi	ing are carbohy	drates EXCEP	Γ	
A- starch	B- glycogen	C- ch	itin	D- cholesterol
4- Active transport A- a concentration	-	B- osmosis	C- energy	D- a hypertonic solution
5- Which of the foll	lowing is not a	part of an anima	al cell?	
A- mitochondria	B- cell r	nembranes	C- cell wall	D- cytoplasm
6- Facilitated diffus	sion reaui	re energy and u	ses the help of	
A- does, transport	_		B- does, cytopl	

7- A semi permeable membrane is stretched across a chamber filled with water. The membrane is only permeable to water. 60 mg of salt is added to the left side of the chamber. Which of the following will happen?

D- does not, sodium pumps

A- water will move toward the right side
C- water will move toward the left side
D- salt will move toward the left side

8- What is the main function of mitochondria?

- A- to generate most of the cell's supply of chemical energy
- B- to ingests and destroys foreign matter.

C- does not, transport proteins

- C- to process and package the proteins and lipids that are made by the cell
- D- to carry the genetic information for the creation of new cells

9- A cell that is missing lysosomes would have difficulty doing what?

A- digesting food B- storing energy
C- packaging proteins D- moving cytoplasm

10- Which of the following organelles would NOT be found in a plant cell?

A- chloroplast B- DNA C- food vacuole D- cell membrane

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Q2: Indicate wheather the following statements are true (T) or false (F) (5 Marks)

- 1- Active transport is the movement materials or ions from an area of lower concentration to an area of higher concentration. (T / F)
- 2- Symports transporter proteins move two solutes in the opposite direction. (T / F)
- 3- As the cell grow in size, the ratio of surface area: volume decrease. (T / F)
- 4- Transport through vesicles is a type of passive transport. (T / F)
- 5- Proteins are made of amino acids held together by ester bonds. (T / F)
- 6- The building blocks of nucleic acid molecules are called DNA and RNA. (T / F)
- 7- A hydrogen bond is stronger than either an ionic or a covalent bond. (T / F)
- 8- All euokaryotes lack the cell wall that surrounding the plasma membranes. (T / F)
- 9- The Na⁺/K⁺ pump bring three Na⁺ into the cell and export ions two K⁺ ions. (T / F)
- 10- In normal conditions, the cells use protein as the first choice to get energy. (T / F)

Q3: Match the following sentence. (5 Marks)

1- Triglycerides	stops once the carrier protein saturated by the carried solute.
? The a helix	source of energy inside the coll

2- The α helix ----- source of energy inside the cell.

----- composed of 3 fatty acid and one molecule glycerol. **3-** Enzymes

4- RNA molecules ----- derived basically from cholesterol ---- covalent bonding between amino acids **5**- Facilitated diffusion **6**- Adenosine triphosphate ----- do not consumed during chemical reactions

7- Endocytosis ----- secondary structure of proteins **8**- Simple diffusion ---- down concentration gradient **9**- Steroid molecules ---- bringing substances into the cells

10-Peptide bonds ----- consist of only one polynucleotide chain

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Using Calculator (No)	2013-2014 Total Grade: 20	Using Dictionary (No)	
Q4: Definitions (5 Marks)			
1- Secondary active transport			
2- Osmosis			
3- Flagella of bacteria			
4- Ribosomes			
5- Saturated triglycerides			

GOOD LUCK