



Alpha Keranyo Secondary & Preparatory School

2012 E.C Academic Year 2nd Semester 1st Round Biology Worksheet for Grade 11

Full name _____ Grade _____ Section _____

Prepared by _____ Natural Science Dep't. _____

Total Mark 10%

Instruction I. The following questions are a “True” or “False” questions write “True” if the statement is correct and “False” if the statement is incorrect.(0.5 pts each)

1. A small amount of enzyme can bring a change in a large amount of substrate.
2. Ligase joining molecules by the formation of new bonds.
3. Apoenzyme are protein that combine with cofactor to form an active enzyme.
4. Non-competitive inhibitors compete for the active site.
5. All organisms are made up of more than a cell.
6. Prokaryotic cells were the first type of cells to be formed when life first evolved.
7. DNA in Eukaryotic cell associated with histone proteins to form chromosomes.
8. Integral proteins play a role in moving substance across the membrane.
9. Hypertonic solution having lower water potential than the cell.
10. Nucleus are sites of most of the reactions of aerobic respiration takes.

- Which of the following plastids are responsible to give coloration to flower and fruit?
 - leukoplast
 - chromoplast
 - chloroplast
 - fruits plast
- One of the following doesn't included in modern cell theory.
 - all known living things are made up of cell
 - all living cells arise from pre-existing cell
 - Energy flow occurs with in cells
 - cells form simply by spontaneous generation
- The first correct cell theory was proposed by
 - Koliker
 - Virchow
 - Fleming
 - Golgi

A	B
1. Cell membrane	A) modification of polypeptide
2. Nucleolus	B) trap sunlight
3. Chloroplast	C) allowing transportation of
substance	
4. Golgi apparatus	D) protein synthesis
5. Lysosome	E) digest cellular macro molecule

- 1) The value of 3.5mm in μm is _____.
- 2) Theory of the origin of eukaryotic cells is called _____ theory.

- 3) _____proteins are proteins that span only one of the two phospholipids layers of plasma membrane.
- 4) In fluid mosaic model,_____reduces the fluidity of the membrane.
- 5) _____is solution having a higher water potential than the cell.

V. Give short and precise answer.

- 1) Write the biological importance of plasma membrane. (2pts)
- 2) Complete the following table with appropriate information. (3 pts)

Feature	Eukaryotic cell	Prokaryotic cells
Nucleus		
DNA		
Mitochondria		
Chloroplasts		
Ribosomes		
Cell wall		

- 3) Complete the following table with appropriate information (3 pts)

Process	Direction of movement
	Particles moved from high to low concentration
	Water molecules move from high water potential to low water potential
	Movement from a high concentration to low concentration through channel or carrier proteins
	Large particles are engulfed by a cell
exocytosis	
pinocytosis	

4)

Write and describe the three cell environments (2 pt)

A. _____

B. _____

C. _____

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Answer Sheet

I. True or False

1. _____ 3. _____ 5. _____
2. _____ 4. _____

II. Choose the best answer

1. _____ 2. _____ 3. _____

III. Matching

1. _____ 2. _____ 3. _____ 4. _____ 5. ____
—

IV. Fill in the blank space

1. _____ 3. _____
2. _____ 4. _____
5. _____

V. Short answer

1. _____ 3. _____

2.

Feature	Eukaryot ic cell	Prokaryot ic cells
Nucleus		
DNA		
Mitochondri a		
Chloroplasts		
Ribosomes		
Cell wall		

5

3.

Process	Direction of movement

4. A. _____
B. _____
C. _____