Kegn. Andarge W/Giorgis Memorial School
Biology grade - 11

Name;_____Grade _____No. _____

I. Write 'true' if the statement is correct and write 'false' if the statement is incorrect ones.

_____1. "Cytology is a field of biology that study about cell.

_____2. Any organelles has a capability to survive themselves out side of cells.

_____3. Archa bacteria is the earliest and oldest organisms.

_____4. Phospho lipid is the main constituent of biological membrane.

_____5. Protoplasm is collectively name of all living components of the cells

II. Choose the correct answer from the following questions.

____1. Which means of particles transport requires input of energy by the cell?

A. simple diffusion C. osmosis

B. facilitated diffusion D. Active transport

____2. What will happen if human red blood cells are kept in hypotonic solution?

A. lose water by osmosis and brust.

B. lose water by osmosis and shrink.

C. Taking in water by osmosis smell and brush.

D. Taking in water by osmosis smell and remain turgid

____3. What is the process by which water passes across the cell membrane?

A. Active transport C. facilitated diffusion

B. osmosis D. pioncytosis

____4. Which of the following is different from the ther?

A. simple diffusion B. facilitated C. osmosis D. Active transport

____5. If the red blood cells shrink when placed in a certain solution, what is the strength of the solution relative to the strength of the protoplasm of the cells?

A. Hypotonic B. Isotonic C. Hypertonic D. Osmosis

____6. If a plant cell is plasmolysed, which of the following term best describes the environment of a cell?

A. Hypertonic B. isotonic C. hypotonic D. isoasmotic

____7. _____ is kind of transport in which solid food is taken into the cell:

A. pinocytosis B. phagocytosis C. exocytosis D. active transport

____8. Plasma membrane is based on a phospholipid bilayers this statement describes:

A. cell theory B. Davsan Danieli model C. fluid mossaic model D. cytology

____9. Which of the following is the main constituent of biological membrane?

A. phospholipids B. Glycoproteins C. Glycolipids D. cholesterol

____10. Which of the following happens if plant cell is placed in hypotonic solution?

A. brusting B. plasmolysis C. turgidity D. shrinking

III. Writing part

1. Write the d/ce b/n phagocytosis and pinocytosis (2%)
   a. phagocytosis

   b. pinocytosis

2. List the proteins that takes in movement of substances across the plasma membrane:(3%)
   a.
   b
   c
   d.

Bonus:

The model of plasma membrane structure that produce by singer and Nichols an in 1972 is called _____

Good Luck!!

By Subject teacher