

Biology - FSC Part 1 Biology English Medium Chapter 4 Preparation

Q1. Differentiate between phagocytosis and pinocytosis.

Q7. Give the significance of vacuole in plant cell.

Ans 1: Phagocytosis: Phagocytosis is to engulf solid food particles.

Ans 2: Pinocytosis: Pinocytosis is to take in liquid material.
Q2. Define semi-permeable membrane.
Ans 1: The membrane which allow passing only selective substance to pass through it is called selectively or semi permeable membrane e.g plasma membrane.
Q3. Give important functions of cytoplasm.
Ans 1: 1.It is center of great metabolic activities like proteins synthesis and glycolysis. 2.It acts as strong house of chemicals. 3.Several cell organelles are present in the cytoplasm.
Q4. What is nucleolus?Give its function.
Ans 1: It is darkly stained body within the nucleus and is without any membranous boundary to separate it from the rest of the nuclear material. The ribosomal RNA is synthesized and stored in the n.
Q5. What are ribosomal sub units?How their attachment is controlled?
Ans 1: Each eukaryotic ribosome consists of two subunits. The larger subunits sediments at 60S, while smaller subunit sediments at 40S. The two subunits on attachment with each other forms 80A particle. This attachment controlled by the presence of magnesium ions.
Q6. How prokaryotic cell differ from eukaryotic cell with two points.
Ans 1: Prokaryotic Cell:Prokaryotic cell has no definite nucleus.Membrane bonded organelles are absent in prokaryotic cell.
Ans 2: Eukaryotic Cell: 1.Eukaryotic cell has definite cell has definite nucleus. 2.Membrane bonded organelles are prresent in prokaryotic cell.

Ans 1 parts.	: Significance of vacuole in plant cells is that it provides turgor pressure which maintain cell shape and give support to plant
Q8. Giv	re a chemical composition of plasma membrane.
Ans 1	: Cell membrane is chemically composed of proteins (60%-80%) and lipids. A small quantity of carbohydrates is also nt.

Q9. What are chromoplasts? Give one example.

Ans 1: They impart colors other than green. They are present in petals of the flowers and in the ripened fruit. They help in pollination.

Q10. Define cell. Who discovered cell?

Ans 1: The cell can be define as the structural and function unit of life. It is smallest unit that can carry out all activities of life. Robert Hooke discovered the cell for the first time.