

Quiz – Cell Membrane

Part A: True/False Questions

1. Cell membrane is fully permeable.
2. Steroid is a major component of cell membrane bilayer.
3. Cell membrane is interspersed with cell membrane proteins.
4. Phospholipid is the primary building block of cell membrane.
5. Large molecules can pass through phospholipid bilayer without assistance.
6. Vesicle is a component of intracellular transport.
7. Ions and large polar molecules can be transported into the cell with the assistance of membrane proteins.
8. Receptors embedded in cell membrane induce signal transduction pathway.
9. Enzymes embedded in cell membrane catalyzes biochemical reactions in cells.
10. Cell membrane contains hydrophilic tail and hydrophilic head.

Part B: Multiple Choice Questions

1. Which of the following is the major function of cell membrane?
 - A. Facilitates compartmentalization
 - B. Separates cells from extracellular components
 - C. Both A and B
 - D. None of the above
2. Which of the following is a major components of cell membrane?
 - A. Cholesterol
 - B. Steroid
 - C. Trans-fat
 - D. None of the above
3. What is the major function of cholesterol in cell membrane?
 - A. Strengthens bilayer
 - B. Reduces permeability
 - C. Regulates integral membrane proteins
 - D. All of the above
4. How is head and tail in cell membrane held together?
 - A. Non covalent hydrophobic interactions
 - B. Metallic interactions
 - C. They are not held together
 - D. None of the above
5. Which of the following can pass through phospholipid bilayer without assistance?
 - A. Fat-soluble molecules
 - B. Ions

- C. Both A and B
 - D. None of the above
6. How is large molecule pass through phospholipid bilayer?
- A. Exocytosis
 - B. Endocytosis
 - C. Assistance of membrane proteins
 - D. All of the above
7. How are ions and large polar molecules transported into the cell via membrane proteins?
- A. Facilitated diffusion
 - B. Active transport
 - C. Both A and B
 - D. None of the above
8. What method does channel protein adopt to transport ions?
- A. Facilitated diffusion
 - B. Active transport
 - C. Both A and B
 - D. None of the above
9. What method does protein pump adopt to transport large polar molecules?
- A. Facilitated diffusion
 - B. Active transport
 - C. Both A and B
 - D. None of the above
10. Apart from transportation, what is other major function(s) of membrane bound proteins?
- A. Anchor protein
 - B. Enzyme
 - C. Receptor
 - D. All of the above