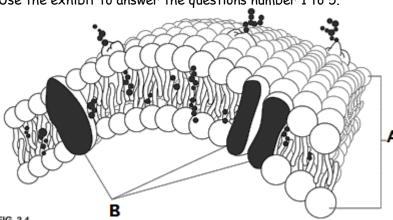
HSA Prep - Cell Membrane

Use the exhibit to answer the questions number 1 to 5.

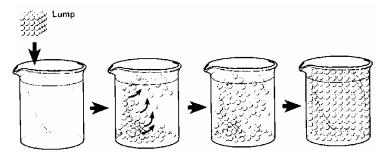


- 1. What is the term for the molecules located in part A of the diagram?
 - A) protein
 - B) phospholipid
 - C) cholesterol
 - D) glycerol
- 2. Which word best describes the structure of the cell membrane?
 - A) layered
 - B) rigid
 - C) impermeable
 - D) nonpolar
- 3. Describe the arrangement of the molecules located in part A of the diagram.
 - A) a polar head and a nonpolar tail
 - B) a nonpolar head and a polar tail
 - C) a polar head and tail
 - D) a nonpolar head and tail
- 4. Refer to the illustration above. The structure labeled B is a(n)
 - A) cell-surface marker.
 - B) receptor protein.
 - C) enzyme.
 - D) transport protein.
- 5. What cell structure is shown in the diagram?
 - A) cell wall
 - B) cell membrane
 - C) Golgi body
 - D) endoplamic reticulum

- 6. Which model did scientists develop to describe the cell membrane?
 - A) phospholipid model
 - B) dynamic model
 - C) fluid mosaic model
 - **D)** transport model
- 7. Which phrase best describes the property of selective permeability?
 - A) some molecules pass
 - B) all ions pass
 - C) large molecules pass
 - D) all molecules pass
- 8. A ligand produces a response in a cell if it finds the right kind of
 - A) carbohydrate.
 - B) hormone.
 - C) membrane.
 - D) receptor.
- 9. Which phrase best describes passive transport?
 - A) requires transport proteins
 - B) requires no energy from the cell
 - C) requires an isotonic solution
 - D) requires facilitation by enzymes
- 10. Water moves into a cell when the solution surrounding the cell is
 - A) hypertonic.
 - B) hypotonic.
 - C) isotonic.
 - D) concentrated.

- 11. What is the term for the diffusion of water across a semipermeable membrane?
 - A) osmosis
 - B) equilibrium
 - C) transport
 - D) isotonic
- 12. The movement of molecules down a concentration gradient through transport proteins in the cell membrane is a type of
 - A) selective transport.
 - B) osmosis.
 - C) energy expenditure.
 - D) facilitated diffusion.

- 113. The difference in the concentration of dissolved particles from one location to another is called a
 - A) concentration gradient.
 - B) concentrated solution.
 - C) saline solution.
 - D) dynamic gradient.



- 14. Refer to the illustration above. The process shown is called
 - A) osmosis.
 - B) facilitated diffusion.
 - C) active transport.
 - D) diffusion.
- 15. Diffusion is the movement of a substance
 - A) only through a lipid bilayer membrane.
 - B) from an area of low concentration to an area of higher concentration.
 - C) only in liquids.
 - from an area of high concentration to an area of lower concentration.
- The dispersal of ink in a beaker of water is an example of
 - A) diffusion.
 - B) osmosis.
 - C) active transport.
 - D) endocytosis.