

Chapter #9.

Explain structure and function of plasma membrane.

(I)

Plasma Membrane

It is the outermost layer of the cell. It contains of thin fluid structure which protect the cell and act like a safeguard.

(II)

Structure of Plasma:

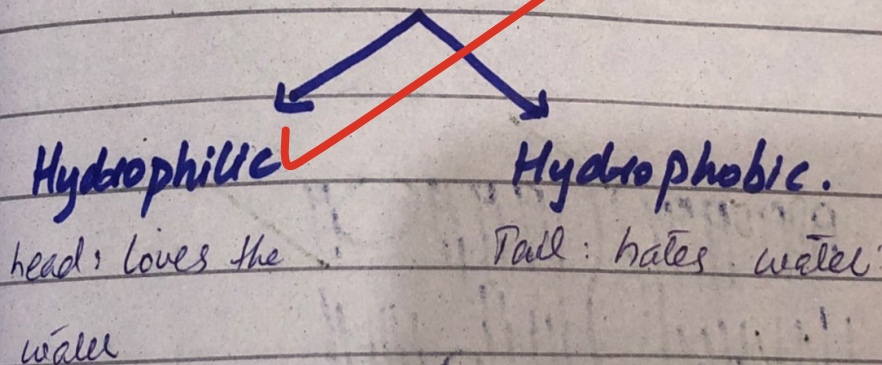
Mosaic Fluid Model

According to the Mosaic Fluid Model, it is a thin layer of fluid which protects the cell. It consist of two layers of fats with the protein floating in it.

fats keeps the cell membrane flexible, while protein controls the exit of waste materials and welcome the nutrients. It consist of following parts.

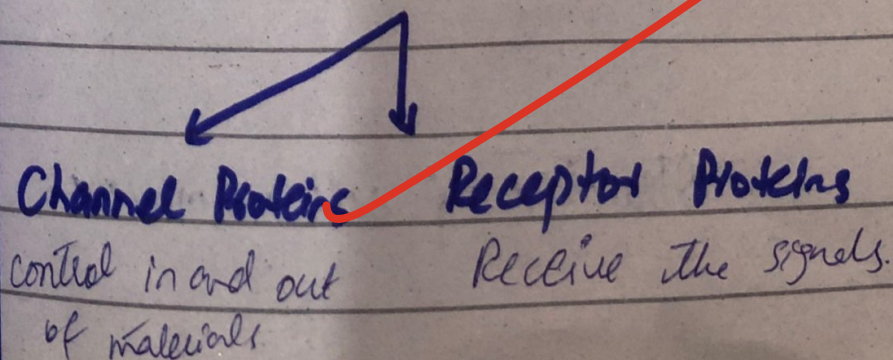
1. Biphaspholipids...

It is bilayer. It consist of two kinds of biphaspholipids.



2. Proteins:

It consist of proteins.

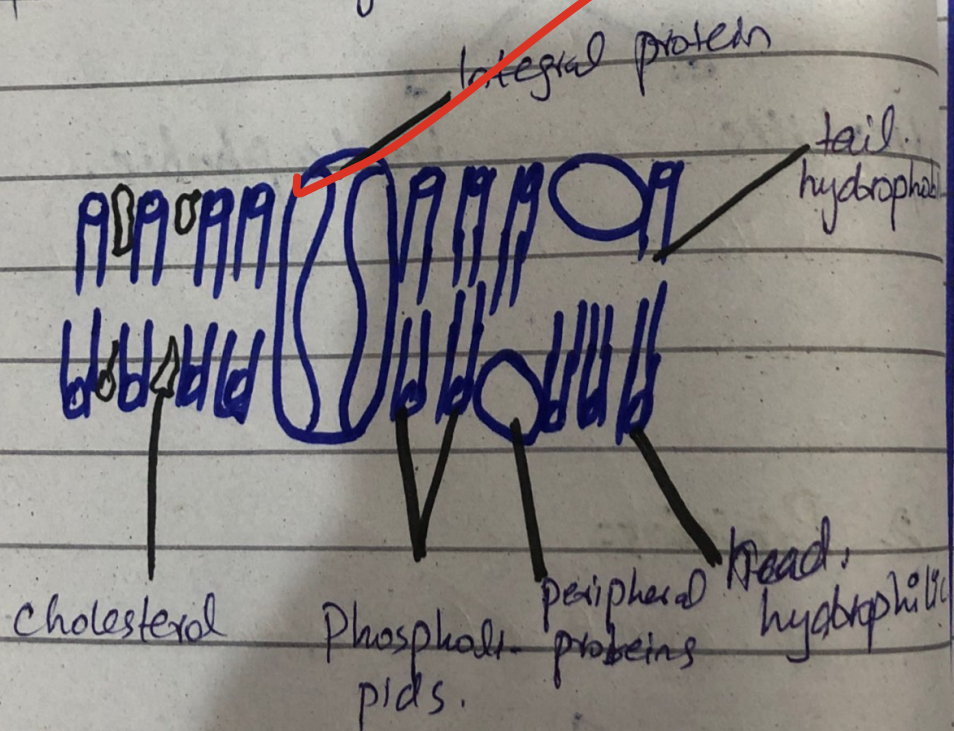


3. Cholesterol:

Cholesterol keep the cell ^{membrane} flexible but strong. With the help of cholesterol, cell membrane bends.

4. Carbohydrates:

They play vital role in recognition of cell, which is helpful for immune system.



Structure of cell membrane

(III)

FUNCTIONS OF PLASMA MEMBRANE

Following are the functions of plasma membrane.

1. Semi-Permeable / Act like Safeguard:

It is semi-permeable layer, which allows the letting in the good things like nutrients and ~~out~~ the harmful substances like carbon dioxide.

2. Protection and Support:

It protects the cell from the outside environmental issues. Also it help to maintain its shape.

3. Help in Recognition of other cells:

With the help of carbohydrates

it recognizes the cells and either
is good for the immune system,
it strange cells try to enter, it
reacts.

4. Sending and Receiving Signals:

Another important role is
transportation of messages. It
sends and receives messages
with the help of preset
protein.

good attempt!!!