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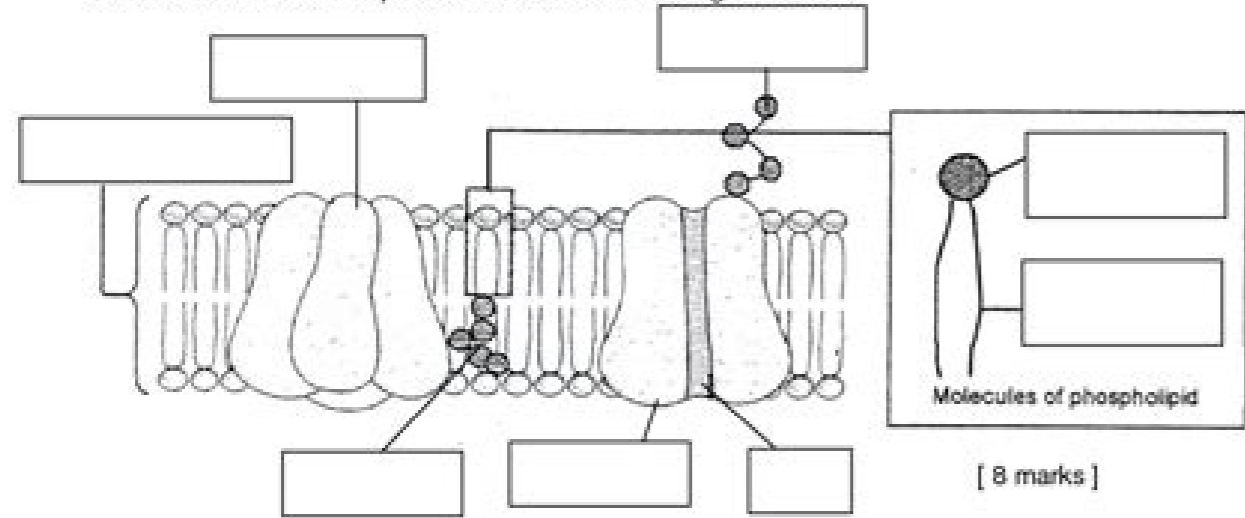
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WORKSHEET 3.2 The Structure of the Plasma Membrane

Score /

Label the structure of the plasma membrane in the diagram below.



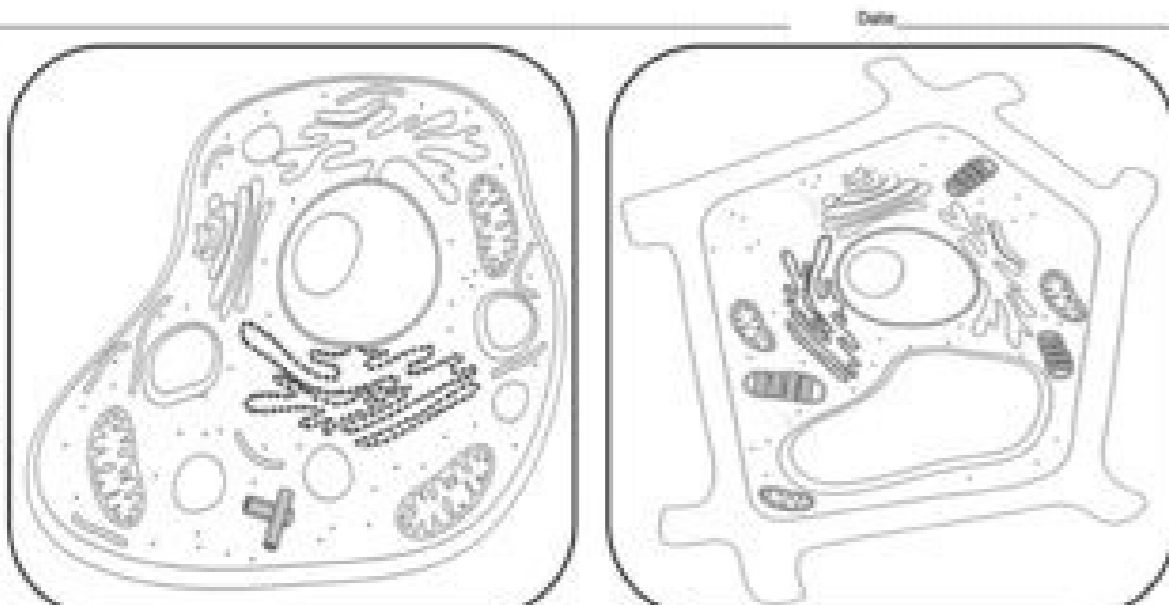
[8 marks]

Diagram 3.1 : The Fluid-mosaic Model

- The plasma membrane, according to the fluid-mosaic model is composed mainly of _____ and protein.
- Each phospholipid molecule consists of two parts:
 - A polar head that gives it a _____ property with attracted to water
 - A pair of non-polar tails that give it a _____ property with repelled by water
- In plasma membranes, phospholipids arrange themselves into two layers (bilayer).
 - The hydrophilic heads of the outer layer face the _____ fluid.
 - The hydrophilic heads of the inner layer face the _____ fluid.
- The _____ acts as a barrier which isolates the two sides of the membrane.
- The phospholipid bilayer also contains _____ which links the fatty acids together.
- Cholesterol makes the plasma membrane stable, stronger, more flexible and less permeable to water-soluble substances such as ions.
- There are two different types of proteins.
 - _____ protein : the protein molecule that forms a channel or pore
 - _____ protein : the protein molecule that acts as a carrier
 Both proteins are referred to as transport proteins.
- Some membrane proteins lipids have branching carbohydrate chains attached to them on their outer surface form _____ and glycolipids respectively.

[10 Marks]

CELL Organelles and Structures



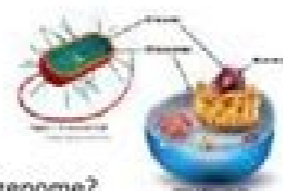
Directions: Read each description below. Write the corresponding name of the organelle or structure in the space provided. Choose a color for each description/home. Color the space for the description/home and each organelle or structure found on the cells above.

Structures that clean up the cell	Where ribosomes are made
Like a highway of the cell with attached ribosomes	Site of protein synthesis
Part of the ER with no attached ribosomes	Imports and packages proteins
Structures that aid in cell division	A storage and transportation vesicle
Fluid material that holds the cell organelles	An additional barrier found in plant cells
Site of cellular respiration	Part of the cytoskeleton in animal cells
Site of photosynthesis	Barrier responsible for maintaining homeostasis
Control center of the cell where DNA is found	Barrier found around the nucleus

Learning Objective: Describe the structure and/or function of subcellular components and organelles.

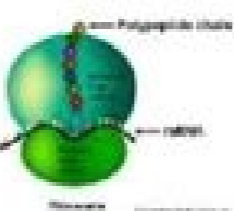
AP Biology Topic 2.1 Cell Structure: Subcellular Components

- All living cells contain a _____
- What is the function of ribosomes?
- What is the difference between prokaryotic and eukaryotic cells concerning their genome?



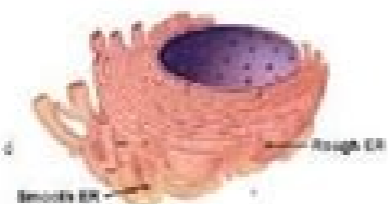
Structure and Function: Ribosomes

- Ribosomes consists of _____
- Ribosomes are made of _____
- Ribosomes synthesize protein according to _____



Endoplasmic Reticulum

- The endoplasmic reticulum is a _____
- Two forms of the ER
 - The rough ER has _____
 - The rough ER compartmentalizes the cell
 - The Rough ER is associated with _____
- Smooth endoplasmic reticulum
 - Does NOT have _____
 - Functions include _____
- What are the structural differences of the Rough ER and the Smooth ER? How does this affect their function?



Golgi Apparatus

- Series of flattened _____
- Involved in the correct folding and chemical modification of _____
- What happens as proteins move through the golgi membrane?



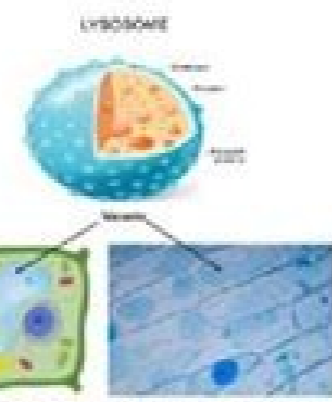
Mitochondria

- Has a _____
- Outer membrane is _____
- Functions in production of _____



Lysosomes

- Membrane-enclosed sacs _____
- Hydrolytic enzymes can be used _____



STRUCTURE OF A PLASMA MEMBRANE

THE FLUID MOSAIC MODEL
Label the parts of the plasma membrane in the diagram below. Use the table on the right to help you if needed.

FUNCTION OF THE PLASMA MEMBRANE COMPONENTS
Complete the table below with the role each component of the plasma membrane plays.

Plasma Membrane Component	Role in the membrane
Phospholipid Bilayer	
Cholesterol	
Glycoprotein	
Glycolipid	
Protein Receptor Site	
Protein Channel	
Protein Carrier	

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