**Plasma Membrane Diagram Checklist**

Draw, color and label a diagram to show the fluid mosaic model of a biological membrane that includes the following:

Phospholipids ( hydrophilic and hydrophobic regions labeled)

Integral protein ( specific name given/function identified on index)

Peripheral protein ( specific name given/ function identified on index)

Glycolipid ( function identified on index)

Glycoprotein ( specific name given/ function identified on index)

Cholesterol

Enzyme ( eg., sucrose) ( specific name given/function identified on index)

Cell surface receptor ( indicate cAMP as the secondary)

Cell surface marker ( specific name given/ function identified on index)

Cytoskeleton attachment ( show atleast four points of attachment)

Direct diffusion ( oxygen as a molecule)

Facilitated diffusion ( name protein channel and specific molecule)

Osmosis ( show both direct and facilitated and name specific protein channel)

Active transport

Active transport pump ( specific name of protein pump)

Cotransport ( symport) ( specific name of molecules involved)

Antiport ( specific name of molecules involved)

Phagocytosis

Pinocytosis

Receptor- mediated endocytosis (show external and internal steps)

Exocytosis (use digestive enzyme as example)

Signal mediated exocytosis ( indicate molecules/ indicate cell type on index)

Endomembrane system

Organelles: Nucleus with nuclear membrane and pores, nucleolus, rough ER, smooth ER, ribosomes ( free), Golgi apparatus, Mitochondria, Peroxisomes.- Functions indicated on index.