

# **Cellular Organelles and Cell Membranes**

## ***Review questions and notes***

1. What is the structure of cell membranes?  
-Fluid Mosaic model
2. What is the function of golgi complex?  
-Maturation and processing of nascent proteins, glycosylation of proteins, secretion of newly synthesized proteins.
3. What is the function of endoplasmic reticulum?  
-Biosynthesis of proteins, drug metabolism, denaturation of fatty acids.
4. What is lysozyme?  
-It is an enzyme that is present in external secretions.
5. What is the function of lysozymes?  
-They are like bags of hydrolytic enzymes that bring about the degradation of macromolecules.
6. Where does protein synthesis takes place?  
-On the walls of the endoplasmic reticulum and also in the cytosol.
7. What are cathepsins?  
-They are intracellular proteolytic enzymes particularly found in the spleen.
8. What is the most important function of the mitochondria?  
-For the generation of ATP
9. What are the important metabolic events taking place in the mitochondria?  
-TCA cycle, Electron transport chain, Beta oxidation of fatty acids and Urea cycle.
10. What are ecto-enzymes?  
-Enzymes seen/ found on the outer portion of cell membranes.
11. Examples of ecto-enzymes