1. Quiz 2 covers lab exercise 3 and review sheet #3.

2. **Structure** of generalized cell **Fig 3.1. Location and Functions** of organelles **Table 3.1. Important**

3. **Structure of cell or plasma membrane** Fig 3.2. Mainly cell membrane has a phospholipid bilayer with hydrophobic tails facing one another and polar heads towards cytoplasm side and outside. Membrane is fluid because phospholipids can move within their layer. Proteins are mostly embedded in lipid bilayer and are called **Intrinsic proteins**. Some proteins may be only at surface of lipids – **Extrinsic proteins**, most are on cytoplasmic side. Proteins form a mosaic in a sea of lipids.

4. **Function of cell membrane**: making boundary = protection, transport, cell-cell recognition, intercellular junctions.

5. Definitions of words like cytosol, organelle, Nucleoplasm, I will use information in Recaps of chapter 3 used during Lecture class to make multiple choice quiz questions.

6. **Microvilli** are smaller finger like projections of cell membrane without a basal granule or 9+2 arrangement of microtubules in them. These increase the surface area of cell for absorption – in intestinal cells.

7. **Cilia** are longer projections of cell membrane, always have a 9+2 arrangement of microtubules in them and a basal granule at their base, contributed by centrioles. Cilia help to move mucous in body organs – like in trachea = wind pipe.

8. **Mitosis** – Fig 3.3, remember the order and characteristics of Interphase, prophase, metaphase, anaphase, Telophase and Cytokinesis. Study the lab manual text of mitosis accompanying the figure.

9. I can use the wording of questions # 2 and 7 of the review sheet 3.