

1) Mention the special stain for the following:

- Cell membrane
- Mitochondria
- GA
- Lysosomes
- Centrioles
- Fat globules
- Glycogen

2) Describe the lipid component of the cell membrane.

3) what are the types of protein present in the cell membrane?

4) Describe the chemical nature and functions of the cell coat.

5) What is meant by membrane trafficking?

6) Describe the ways of exchange of material through the cell membrane.

7) Where can we find DNA outside the nucleus, mention the LM and special stain for that organelle

8) Mention the components of mitochondrial matrix

9) Compare between rER and sER as regards: LM, EM, staining properties, sites and main function.

10) Describe the LM picture of GA, sites and special stain

11) Describe the EM picture of GA

12) Describe the types of lysosomes.

- 13) Mention 4 functions for the lysosomes.
- 14) Compare between lysosomes and peroxisomes as regards: origin, enzymes, LM, EM and functions