



INDIAN SCHOOL NIZWA

CLASS XI – BIOLOGY WORKSHEET -Ch-8 CELL: THE UNIT OF LIFE

1. What is cell theory? Who modified the hypothesis of Schleiden & Schwann?
2. Name a membrane less cell organelle, largest isolated animal cell, longest animal cell.
3. What are the main components of a Prokaryotic cell? Where do you find plasmids?
Give 1 function of plasmid.
4. In a typical prokaryotic cell, explain the structure and function of each of the following:
 - (i) Plasma membrane (iv) flagellum
 - (ii) Capsule (v) pili and fimbriae
 - (iii) mesosomes
5. Why do we call cell membrane to be dynamic, fluid and semi permeable?
6. Name the scientists who proposed the “Fluid-mosaic model of cell membrane”.
Explain the structure with help of labelled diagram.
7. Why does golgi apparatus remain in close association with E.R.?
8. Name the various types of vacuoles found in cells. Also mention the function of each.
9. With the help of diagram, explain the structure of Mitochondria.
10. Classify the types of Plastids found in plant cell. Name the pigments present in chloroplasts.
11. What do you understand by 9+2 arrangement in Cilia and flagella? Draw a well labelled diagram also.
12. Give a brief account of nucleosome
13. Why does the nucleus have an envelope around it? What are the principal roles of nucleus?
14. Name the primary constriction present in every chromosome.
15. How do you identify various types of chromosomes based on the position of centromere?
- 16 Draw and Label the diagrams
 - i) Plant cell
 - ii) Animal cell
 - iii) Mitochondria
 - iv) Chloroplast
 - v) Golgi bodies
 - vi) Nucleus
 - vii) Chromosome