KEY POINTS:

*Cell is the structural and functional unit of life.
*Matthius Schleiden and Theodor Schwann proposed cell theory.
*The main features of cell theory are-
1. All living organisms are made up of cells.
2. The cell is the structural and functional unit of living organisms.
3. All cells arise from pre existing cells.

*Prokaryotic cells don’t have well defined nucleus.
* Prokaryotes contain nucleoid.
* Prokaryotes don’t have membrane bound cell organelles.
* Eukaryotic cells contain well defined nucleus and membrane bound cell organelles.
* All cell components inside the cell membrane are collectively known as protoplasm.
* Protoplasm without nucleus is known as cytoplasm.
* Ribosome is known as universal cell organelle.
* Centrosome is present only in animal cells.
* Plastids are present only in plant cells.
* Cell membrane is living, selectively permeable and made up of lipoproteins.
* Cell wall is non living, freely permeable and made up of cellulose.
1. What is cell?
2. What do you mean by prokaryotic cells? Give an example.
3. What do you mean by eukaryotic cells? Give an example.
4. Write two differences between prokaryotic and eukaryotic cells.
5. Write the main postulates of cell theory.
6. Write two differences between cell membrane and cell wall.
7. What is protoplasm?
8. What is cytoplasm?
9. Name a cell organelle present only in animal cells and mention its function.
10. Name a cell organelle present in both prokaryotic and eukaryotic cells.

[Copy the questions and solve them on a sheet of paper date wise. Keep the worksheets ready in a file to be submitted on the opening day.]