

UNIT-I-Long Questions

Describe the biological contribution of Robert Hooke, Jan Evangelista purkyne, Schleiden and Schwann.

Describe the structure of prokaryotic and eukaryotic cell. How they are differ from each other?

Describe the structure of Muscle cell and Nerve Cell with labelled diagram. Write their functions.

Short

Describe the Structure of Plant cell

Write contribution of any three scientists in the discovery of cell.

Describe the structure and function of nucleus.

V Short

Define cell.

Give contribution of Robert Hooke.

Give contribution of Theoder and Schwann.

UNIT-II-Long Questions

Describe structure and function of Nucleus and Nucleolus with the help of labelled diagram.

Explain the structure of bacterial cell wall and how it is differ from plant cell wall.

Describe the structure of chloroplast with labelled diagram and write note on its function.

Short

Explain the Fluid Mosaic Model of Singer and Nicolson.

Write short note on cell theory.

Give difference between plant cell and animal cell.

Write down difference between plant cell and bacterial cell.

Write short note on endoplasmic reticulum.

Describe cell locomotion.

V Short

Give the role of centrioles.

Write down functions of lysosomes.

Write down functions of chloroplast.

UNIT-III-Long Questions

What are actin filaments? Explain the structure and function of it.

What are microtubules? Explain the structure and function of it.

Explain the cellular locomotion in detail with an example.

Short

Write short note on Tubulin synthesis.

Write short note on cell locomotion.

Explain Dynamic stability of Tubulin

V Short

What are vimentins?

What do you mean by neurofilaments?

Give different types of microtubules.

UNIT-IV-Long Questions

What is mitosis cell division? Explain the stages of it with the help of labelled diagram.

Explain the cell cycle in detail.

What is cell synchrony? Explain it and its application in detail.

Short

Explain cell synchrony and give its application

Explain cell senescence.

Describe cell cycle.

Write short note on cytokinesis.

V Short

Name the different phases of cell cycle.

Define somatic cycle.

Write different stages of mitosis.

