

EXAMINATION
Class IX
(The Fundamental Unit of Life)

Time: 1 hrs

M.Marks:25

I. Answer each of the following questions

1. Name the biologists who presented the cell theory. (1M)
2. White or colourless plastids are called what? (1M)
3. What is plasmolysis? (1M)
4. Which cell organelle plays a major role in detoxifying poisons and drugs?(1M)
5. Which molecules are also known as energy currency of the cell? (1M)
6. What is Membrane Biogenesis? (1M)
7. The active sites of protein synthesis are found in which organelle? (1M)
8. Differentiate between Eukaryotic and Prokaryotic cells with examples.(2M)
9. Why is the plasma membrane called a selectively permeable membrane? Plasma membrane is made up of which two components?(2M)
10. Why are lysosomes known as suicide bags?(2M)
11. What are chromosomes? Also, explain how the term DNA and genes are related to Chromosomes. (2M)
12. What are hypotonic, isotonic and hypertonic solutions? Explain.(2M)
13. Briefly explain the structure and functions of any two cell organelles. (2M)
14. Differentiate between Mitosis and Meiosis with the help of a neat diagram.(3M)
15. What is osmosis? Differentiate between diffusion and osmosis.(3M)