Biology



Board - CBSE

Class - 11

Chapter – Cell: The Unit of Life

- 1. How the study of cells and its detailed structure was made possible?
- 2. List out the functions of a Cell.
- 3. Why is the cell the basic unit of life?
- 4. Cells show great variation in their shape and size. Explain.
- 5. Are organelles without membranes present? Comment.
- 6. Explain the ribosomes found in prokaryotic cells.
- 7. State the characteristics of prokaryotic cells.
- 8. Describe the cell theory in brief.
- 9. Write a short note on facilitated diffusion.
- 10. What is the importance of a vacuole in a plant cell?
- 11. Differentiate between Rough Endoplasmic Reticulum and Smooth Endoplasmic Reticulum.
- 12. Draw a well-labelled diagram of chloroplast.
- 13. Who gave the statement Omnis cellula e cellula? What does it mean?
- 14. What is a nucleoid?
- 15. What is the fluid mosaic model of the plasma membrane?
- 16. Explain the ribosomes found in prokaryotic cells.
- 17. Mention the two subunits of the ribosome of the eukaryotic cell.
- 18. How chromosomes are formed from chromatin?'
- 19. Why are mitochondria known as the "powerhouse of the cell"?
- 20. What are plasmids? Where are they present?
- 21. Explain the terms related to a prokaryotic cell (a) Mesosomes (b) Chromatophores
- 22. Draw a well-labelled diagram of ER showing its types.
- 23. Write the chemical composition of cell wall of (a) Bacteria (b) Fungus (c) Alga
- 24. Give the specific terms for the following

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- (a) Cluster of ribosomes found in cytoplasm
- (b) Extensive in folding to the inner membrane of mitochondria.
- (c) Stacks of closely packed thylakoids
- (d) Stalked particles on the inner membrane of mitochondria.
- 25. Which cell organelles are non-membrane bound and found in both prokaryotes and eukaryotes?
- 26. (a) What is the composition of chromatin? (b) What is the function of histone proteins?
- 27. Mention the similarity and differences between mitochondria and chloroplasts?
- 28. What are nuclear pores? State their function.
- 29. Give the difference between cell wall and cell membrane.
- 30. Why are lysosomes called "suicidal bags"?