

Class: 9
Subject: Biology
Topic: The Fundamental Unit of Life
No. of Questions: 20

- Q1. Which of the following options is a single membrane bound cell organelle?
- Nucleus
 - Lysosome
 - Mitochondria
 - Chloroplast
- Q2. Plant cell wall is composed of an important substance known as
- Cellulose
 - Lipids
 - Protein
 - Chitin
- Q3. Rod shaped structures in nucleus visible at the time of cell division are known as _____.
- DNA
 - genes
 - chromatin
 - chromosomes
- Q4. Movement of solvent across the plasma membrane from the region of lower concentration of solute to the region of higher concentration of solute is known as
- diffusion
 - plasmolysis
 - osmosis
 - active transport
- Q5. What is the difference between prokaryotic and eukaryotic cell?
- Q6. Explain fluid mosaic model.
- Q7. What is the difference between osmosis, diffusion and active transport?

- Q8. What are the functions of cell membrane?
- Q9. What is the difference between endosmosis and exosmosis?
- Q10. What is active transport?
- Q11. Explain cell wall.
- Q12. Explain location of chromosome.
- Q13. Who discovered cells, and how?
- Q14. What are isotonic solution, hypertonic solution and hypotonic solutions?
- Q15. Remove the shell of an egg by dissolving it into dilute hydrochloric acid. Put the egg in pure water and left it for 5 minutes. What do we observe?
- Q16. How do substances move out of the cell?
- Q17. What is the function of plasma membrane?
- Q18. Who gave the cell theory? What does it state? Which organism is an exception of cell theory?
- Q19. First living cell was discovered by -----
- Q20. The term protoplasm was coined ----- in 1839.