

1. Name two semi autonomous organelles.
2. Give an example of unicellular prokaryotic organism and an example of unicellular eukaryotic organism.
3. What is meant by membrane biogenesis?
4. Why are lysosomes known as suicide bags?
5. Why the inner membrane of the mitochondria runs into folds?
6. Who discovered cell and how?
7. Write the names of different plant parts in which chloroplasts, chromoplasts and leucoplasts are present?
8. Name the two components of plasma membrane.
9. Differentiate between mitosis and meiosis.
10. What is the significance of pores present on the nuclear membrane?
11. What is plasmolysis?
12. State two conditions required for osmosis.
13. Sanjay was helping his mother in laying the table when they had some guest for dinner. Sanjay was about to sprinkle salt on salad for dressing. His mother stopped him from doing so and told him that it is too early to sprinkle salt on the salad, he should do so only when they are seated for having the dinner.
 - (a) What would happen if salt is sprinkled on the salad?
 - (b) Which property of cells is seen in adding salt to it?
14. Srinidhi is a five year old girl who joined the swimming classes. After the first class she was worried when she saw her wrinkled fingers. She asked her elder sister about the wrinkling and shrinking of her fingers. Her sister explained Srinidhi why it was so.
 - (a) Why did the fingers wrinkle after swimming?
 - (b) What caused the shrinking/wrinkling of fingers?
15. (a) What is endoplasmic reticulum? Describe its structure.
(b) Name the two types of endoplasmic reticulum.
(c) What crucial role does it play in the liver cells of vertebrates?
16. Differentiate between Unicellular and Multicellular organisms.
17. What determines the shape and size of a cell? Give an example.

18. What is the advantage of flexibility of plasma membrane?
19. Differentiate between Cell membrane and Cell wall.
20. How can bacterial and fungal cells withstand Hypotonic conditions?
21. Name the category of cells that contain a nucleoid.
22. Distinguish between SER and RER
23. Name 2 semi-autonomous organelles found in plant cells. Why are they called so?
24. Differentiate between a bacterial cell and liver cell.
25. Name 2 organelles involved in protein synthesis in eukaryotes.
26. Name the three kinds of plastids. What are their functions?
27. What is the function of vacuoles in Amoeba?
28. Differentiate between Mitosis and Meiosis.
29. Why do cells divide?
30. Which kind of cell division will be performed for producing sperm? Why?

