

Cell theory test

1. Which cell was observed first and by whom? 2
2. Write a short note on plastids. 3
3. If you rupture the cell membrane what will happen? 2
4. Full form of RNA, ATP 2
5. Differentiate between cell wall and cell membrane 3
6. Why lysosomes are called suicidal bag? 2
7. If you dip a deshelled egg into water what will be your observation? Also define the process. 2+1
8. Give examples of two autonomous organelles. 2
9. What are the characteristics of prokaryotes? 3
10. What is the longest cell of human beings? 1
11. What is membrane biogenesis? 2
12. Write down the functions of Golgi bodies. 2
13. Why nucleus is called brain of the cell? 2
14. What are the two types of ER? What are their functions? 3
15. Name one organelle is produced from different types of ER. - 1
16. Why are cells found in the body of different shapes and sizes? - 2
17. How does shape of muscle cell help in its functioning? Explain with a diagram - 3
18. Draw a prokaryotic cell - 2
19. List two structural differences in bacterium and paramecium - 2
20. What is importance of flexibility of cell membrane in Amoeba? Name the structure it forms? - 2
21. X and Y are two types of cells. The cell X has a well organised nucleus separated from cytoplasm by nuclear membrane. Y Cell has its nuclear material in direct contact with the cytoplasm - 2
 - a) What type of cells are X and Y.
 - b) Give one example of X and Y
22. Which of the following has more number of cells – rat, dog, monkey, elephant. Give reason for your answer. - 2

23. The parts A and B are present only in plant cell. The part A contains green pigment C where cell wall of B is made of a tough material S. A helps in food making process P.
-2
- a) Identify A and B
 - b) List two importance of B to plant cell?
24. Which cell organelle is called power house of the cell and why? - 2
25. Both nucleus and nucleolus are dark staining structures in the cell. List two differences between nucleus and nucleolus. Name the stain used to see them clearly. 3
26. Giving the location of leucoplast and chloroplast, list a difference between them based on their function - 2
27. Mitochondria acts on which substrates to produce energy? What is cristae? 2
28. What is the non- living part of a tomato cell? 1
29. Which of the following can't be seen in a resting nucleus? 1
30. Who proposed cell theory? State cell theory. 3
31. Name the chemical responsible for cell wall thickening. 1
32. Which chemical is present in fungus cell wall? 1
33. What are different parts of cytoplasm? 2
34. What is called protein factory of our body? 1
35. Name cell organelles having double membrane and one cell organelle having single membrane. 2
36. Which types of cell division takes place in gametes? 1
37. If number of chromosome in one parent cell is 20 then what will be the number of chromosome in the gamete? 1
38. For growth of a body which type of cell division we need? 1
39. What is plasmolysis? 1
40. How are gases exchanged through the plasma membrane? 2