

I. Choose the correct answer. (5×1=5)

1. Suitable term for the various components of cell is _____

- a) Tissue b) Nucleus c) Cell d) Cell organelle

2. _____ helps in cell division.

- a) Endoplasmic reticulum b) Golgi complex
c) Centriole d) Nucleus

3. Basic unit of life.

- a) Cell b) Protoplasm c) Cellulose d) Nucleus

4. _____ involves in the development of spindle fibres in cell division.

- a) Vacuole b) Chloroplast c) Centriole d) Mitochondria

5. Many organs together form an _____

- a) Tissue b) Cell c) Organ system d) Organ

II. Fill in the blanks. (5×1=5)

6. Cytoplasm plus nucleoplasm is equal to _____

7. The jelly like substance present in the cell is called _____

8. Unicellular organisms can only be seen under a _____

9. I convert the sun's energy into food for the plant. Who am I?

10. _____ impart colour to flowers and fruits.

III. True or False. If False give the correct answer. (5×1=5)

11. Human stomach is an organ.

12. Salmonella is a unicellular bacteria.

13. Animal cells have cell wall.

14. Only plant cells have chloroplast.

15. Chloroplast is a type of plastid.

IV. Match the following. (5×1=5)

- | | |
|--------------------------|-------------------------|
| 16. Transporting channel | - Lysosome |
| 17. Suicidal bag | - Nucleus |
| 18. Control room | - Endoplasmic reticulum |
| 19. Power house | - Colourless |
| 20. Leucoplasts | - Mitochondria |

V. Analogy. (3×1=3)

21. Cell wall : Plant cell : :

Centriole : _____.

22. Adipose : tissue : :

Eye : _____.

23. Bacteria : Microorganism : :

Mango tree : _____.

VI. Choose the correct answer from the following. (2×1=2)

24. Assertion (A) : Majority of cells cannot be seen directly with naked eye.

Reason (R) : Cells are microscopic.

- a) Both A and R are true
b) Both A and R are false
c) A is true but R is false
d) A is false but R is true

25. Assertion (A) : Tissue is a group of dissimilar cells.

Reason (R) : Muscle is made up of muscle cell.

- a) Both A and R are true
b) Both A and R are false
c) A is true but R is false
d) A is false but R is true

VII. Very short answer. (10×1=10)

26. Name the matured cell that do not have a nucleus.
27. Which part of the cell is called the brain of the cell?
28. Write any one function of cell wall in plant cell.
29. Which organelle uses energy from sunlight to make starch?
30. Why lysosomes are known as scavengers of the cell?
31. What is the function of cell membrane.
32. What are the components of nucleus?
33. I am the outer most layer of an animal cell. Who am I?
34. Which cell can become absolutely any type of cell in the body?
35. Write correct sequence from cell to organism.

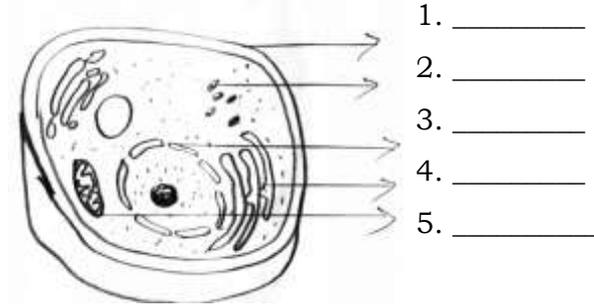
VIII. Give any eight short answers. (8× 2½=20)

(Question number 36 is compulsory)

36. Who am I?
 - i) I am the “Protein synthesis ” of the cell.
 - ii) I am the “area of movement”
 - iii) I am the “food producer”.
 - iv) I am the brain of the cell.
 - v) I am the supporter and protector.
37. Why the cell is very important for us?
38. What is chromosome? Mention its functions.
39. Teacher said, “ A virus is not an organism”. Do you agree with this statement or not? Explain why?
40. Distinguish between the following pair : Smooth Endoplasmic and Rough Endoplasmic reticulum.
41. Write a short note on nucleus.
42. Write a short note on cytoplasm.
43. Classify the following terms into cells, tissues, Organs and write in the tabular column : [Neuron, Lungs, Xylem, Brain, Adipose, Phloem, RBC]
44. Distinguish between Cell Wall and Cell Membrane.
45. Distinguish between Chloroplast and Mitochondria.

IX. Give any three long answers. (3× 5=15)

46. Compare the plant cell and animal cell.
47. Write the four specialized cells along with their functions.
48. Write about any three organelles in detail.
49. In a situation, how to explain while your friend ask what is this, never seen before?



X. Picture based question. (3+2=5)

50. Draw a neat labelled sketch of ‘Nucleus’.
51. Identify the following diagram.

