



BIOLOGY

BOOKS - MAXIMUM PUBLICATION

CELL-THE UNIT OF LIFE

Exercise

1. While studying the stages of meiosis following features observed at one stage.

(1) Pairing of homologous chromosomes.

(2) Formation of synaptonemal complex. Identify the stage.



[Watch Video Solution](#)

2. While studying the stages of meiosis following features observed at one stage.

(1) Pairing of homologous chromosomes.

(2) Formation of synaptonemal complex. Identify the stage.



[Watch Video Solution](#)

3. Make a list of organelles that function as cytoskeleton.



Watch Video Solution

4. Name two cell organelles that are double membrane bound. Write the main functions of each.



Watch Video Solution

5. Name the cell organelles in the cell which act as the following.

Protein factories

Powerhouse

Disposal unit

Control centres



[Watch Video Solution](#)

6. Name the cell organelles in the cell which act as the following.

Protein factories

Powerhouse

Disposal unit

Control centres



Watch Video Solution

7. Name the cell organelles in the cell which act as the following.

Protein factories

Powerhouse

Disposal unit

Control centres



[Watch Video Solution](#)

8. Name the cell organelles in the cell which act as the following.

Protein factories

Powerhouse

Disposal unit

Control centres



[Watch Video Solution](#)

9. Bacterial cell envelope is a complex structure. It is made up of various layers.

Name the different layers in the Bacterial cell envelope.



Watch Video Solution

10. Pick up the odd one and state reason for your answer. Golgi bodies, Nucleolus, Nucleus, Lysosome.



Watch Video Solution

11. Identify the power house of a cell. Give justification



Watch Video Solution

12. Interphase in cell cycle is referred to as resting phase. Do you consider this statement true? Substantiate your answer.



Watch Video Solution

13. How RER is different from SER?



Watch Video Solution

14. Name the organelles which act as the following.

Protein factories



Watch Video Solution

15. While looking through the microscope Ramesh saw few organisms. Help him to distinguish these organisms into Prokaryotes and Eukaryotes.



Watch Video Solution

16. What is a tonoplast?



Watch Video Solution

17. What structural and functional attributes must a cell have to be called a living cell?



Watch Video Solution

18. What is a mesosome in a prokaryotic cell ?
Mention its function?



Watch Video Solution

19. Multicellular organisms have division of labour. Explain.



Watch Video Solution

20. Why is ER called cell circulatory system?



Watch Video Solution

21. Identify the statement given below is true /false.

Robert Brown discovered cell.



[Watch Video Solution](#)

22. Identify the statement given below is true /false.

Schleiden and Schwann formulated cell theory.



[Watch Video Solution](#)

23. State whether the statements are 'true' or 'false'. If 'false', correct the statements by

changing the underlined words.

RER is the major site for synthesis of lipids.



Watch Video Solution

24. Due to the presence of a secondary construction, a knob-like small fragment appears in some chromosomes called

A. Kinetochore

B. Histone

C. Satellite

D. Chiasmata

Answer: C



View Text Solution

25. Identify the cell organell known as 'powerhouse' of the cell from those given below.

A. Lysosome

B. Centrosome

C. Mitochondria

D. Plastid

Answer: C



View Text Solution

26. Which of the following is not correct?

A. Robert Brown discovered the cell.

B. Schleiden and Schwann formulated the
cell theory

C. Virchow explained that cells are formed from preexisting cells.

D. A unicellular organism carries out its life activities within a single cell.

Answer: A



View Text Solution

27. Which of the following is correct?

A. cells of all living organisms have a nucleus.

B. Both animal and plant cells have a well defined cell wall.

C. In prokaryotes, there are no membrane bound organelles.

D. Cells are formed de novo from abiotic materials.

Answer: C



View Text Solution

28. New cells generate from

- A. bacterial fermentation
- B. regeneration of old cells
- C. pre-existing cells
- D. abiotic materials

Answer: C



View Text Solution