



# BIOLOGY

# **BOOKS - MAXIMUM PUBLICATION**

# **CELL-THE UNIT OF LIFE**



 While studying the stages of meiosis following features observed at one stage.
 Pairing of homologous chromosomes.



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.

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

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

5. Name the cell organelles in the cell which

act as the following.

**Protein factories** 

Powerhouse

Disposal unit

**Control centres** 

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9. Bacterial cell envelope is a complex structure. It is made up of various layers. Name the different layers in the Bacterial cell envelope.

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

11. Identify the power house of a cell. Give

justification

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12. Interphase in cell cycle is referred to as

resting phase. Do you consider this statement

true? Substantiate your answer.



13. How RER is different from SER?



**14.** Name the organelles which act as the following.

**Protein factories** 



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

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**16.** What is a tonoplast?

17. What structural and functional attributes

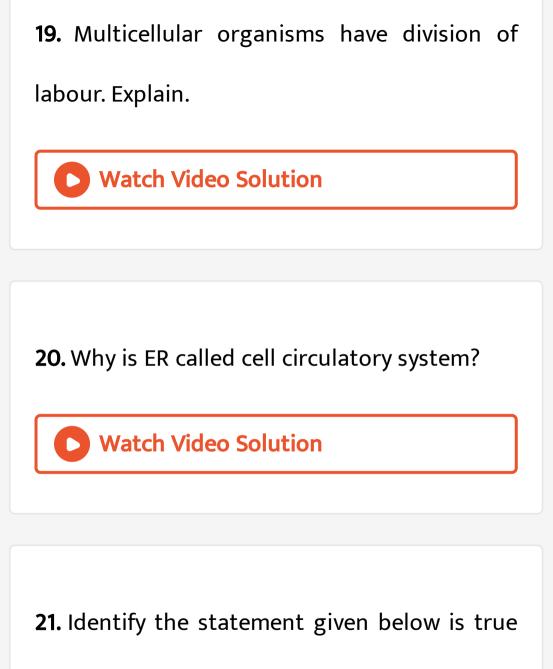
must a cell have to be called a living cell?

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18. What is a mesosome in a prokaryotic cell ?

Mention its function?





/false.

Robert Brown discovered cell.



**22.** Identify the statement given below is true

/false.

Schleiden and Schwann formulated cell theory.

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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.



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

A. Kinetochore

B. Histone

C. Satellite

# D. Chiasmata

## Answer: C

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**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



**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

activi ties within a single cell.

Answer: A

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**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 membrance

bound organelles.

D. Cells are formed de novo from abiotic

materials.

#### Answer: C

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28. New cells generate from

A. bacterial fermentation

B. regeneration of old cells

C. pre-existing cells

D. abiotic materials

### Answer: C

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