



# BIOLOGY

## BOOKS - SURA BIOLOGY (TAMIL ENGLISH)

### THE CELL

#### Example

1. The unit of measurement used for expressing dimension(size)of cell is \_\_\_

A. centimeter

B. millimeter

C. micrometer

D. meter

**Answer:**



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2. Under the microscope Priya observes a cell that has a cell wall and distinct nucleus. The cell that she observed is a

- A. a plant cell
- B. an animal cell
- C. a nerve cell
- D. a bacteria cell

**Answer:**



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**3.** A 'control centre' of the eukaryotic cell is

- A. Cell wall

B. Nucleus

C. Vacuoles

D. Chloroplast

**Answer:**



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4. Which one of the following is not an unicellular organism?

A. Yeast

B. Amoeba

C. Spirogyra

D. Bacteria

**Answer:**



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5. Most organelles in a eukaryotic cell are found in the

A. Cell wall

B. cytoplasm

C. nucleus

D. Vacuole

**Answer:**



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6. The instrument used to observe the cell is \_\_\_\_.



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7. I control the food production of a cell. Who am I \_\_\_?



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8. I am like a policeman. Who am I \_\_\_?



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9. The term cell was coined by .....



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10. The egg of an Ostrich is the \_\_\_\_ single cell.



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11. True or False .If False, give the correct answer: A cell is the smallest unit of life.



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**12.** True or False .If False, give the correct answer: Nerve cell is the longest cell.



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**13.** True or False .If False, give the correct answer: Prokaryotes were the first form of life on earth.



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**14.** True or False .If False, give the correct answer: The organelles of both plants and animals are made up of cells.



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**15.** True or False .If False, give the correct answer: New cells are produced from existing cells.



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**16. Match the following:**

1. Control center	Cell membrane
2. Food producer (Plant cell)	Mitochondria
3. Gate of the nucleus	Nucleus
4. Gate of the cell	Chloroplasts
5. Energy producer	Nuclear membrane



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**17. Arrange in a correct sequence:**

Elephant, Cow, Bacteria, Mango, Rose plant.



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18. Arrange in a correct sequence: Hen egg, Ostrich egg, Insect egg,



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19. Analogy: Prokaryote: Bacteria ::

Eukaryote: \_\_\_\_\_



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20. Analogy: Spirogyra: Plant cell :: Amoeba: \_\_\_\_\_



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21. Analogy: Food producer: Chloroplasts ::  
Power house\_\_\_\_\_



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22. Who discovered the cell in 1665?



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**23.** What type of cells do we have?



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**24.** What are the essential components of a cell?



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**25.** What are the organelles found only in plant cell.



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**26.** Give any three examples of eukaryotic cell.



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**27.** Which one is called as "Area of movement"?



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**28.** Shiva said "Bigger onion has larger cells when compared to the cells of smaller onion"

Do you agree with his statement or not?

Explain Why?



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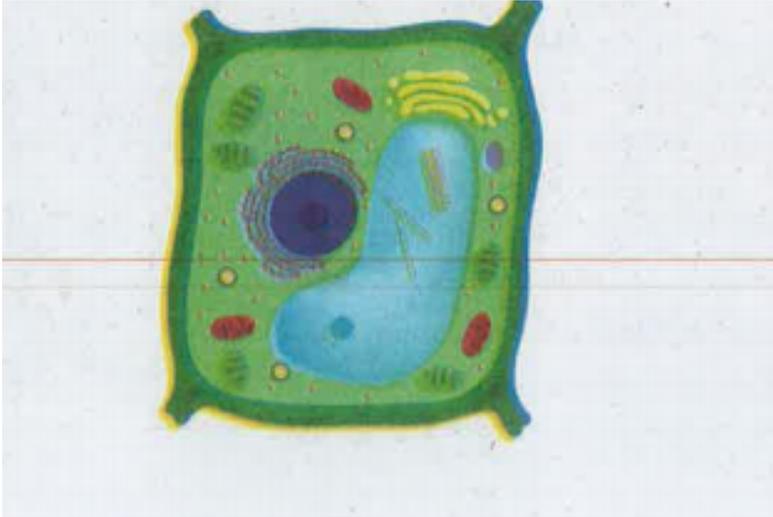
**29.** Why cells are called building blocks of life?



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**30.** Identify any four parts of the plant cell.



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**31.** Distinguish between prokaryotic and eukaryotic cells.



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**32.** Make sketches of animal and plant cells which you observe under microscope.



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**33.** Write about the contribution of Robert Hooke in cell biology.



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**34.** Tabulate any five cell organelles and their function.



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**35.** Draw a neat labelled diagram of a prokaryotic cell.



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**36.** Which one is prokaryotic cell among the following?

A. Plant cell

B. animal cell

C. Nerve cell

D. Cyano bacteria cell

**Answer:**



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37. Robert Hookd published a bood named \_\_\_ in the year 1665.

A. Cellula

B. Micro graphia

C. Cell biology

D. Organelles

**Answer:**



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38. A typical cell consists of \_\_\_ major parts.

A. two

B. Four

C. Three

D. Five

**Answer:**



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**39.** The largest cell is the egg of an \_\_\_ with 170 millimeter width.

A. Ostrich

B. viper

C. tortoise

D. Hen

**Answer:**



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40. Approximate number of cells in the human body is\_\_\_\_\_.

A.  $3.7 \times 10^{13}$

B.  $3.7 \times 10^{12}$

C.  $3.7 \times 10^{14}$

D.  $3.7 \times 10^{15}$

**Answer:**



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41. Prokaryotic cell type of nucleus is called as \_\_\_

A. nucleolus

B. nucleus membrane

C. organelles

D. nucleiod

**Answer:**



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42. \_\_\_ is the basic structural and functional unit of every living organism.



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43. Now a days an \_\_\_ microscope is used to magnify the cells.



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44. In Latin the word 'cellula' means a \_\_\_.



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45. The branch of science that deals with the study of cells is called.



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46. The outer covering part of cell is called \_\_\_\_.



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47. \_\_\_\_ cells were the first form of life on earth.



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**48.** \_\_\_\_\_ is present in plant cell only.



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**49.** Plants prepared food with the help of \_\_\_\_\_.



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**50.** Find whether the following sentences are true or false. If false Correct the statement:  
The cell is self-sufficient carry out all the fundamental and essential functions of an organism.



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**51.** Find whether the following sentences are true or false. If false Correct the statement:

Robert Hooke saw many objects like Butterfly's compound eyes, Bee's wing etc.



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**52.** Find whether the following sentences are true or false. If false Correct the statement: All the cells can be seen with our naked eye.



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**53.** Find whether the following sentences are true or false. If false Correct the statement:  
The size of the bacterial cell ranges from 0.01micro meter to 0.5 micrometer.



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**54.** Find whether the following sentences are true or false. If false Correct the statement:  
Spirogyra and Human beings are unicellular.



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## 55. Matching:

1. Discovery of cell	a)	Nerve cell
2. Unicellular organism	b)	spirogyra
3. Multicellular organism	c)	Robert Hooke
4. Longest cell	d)	Cyano bacteria
5. Prokaryotic cell	e)	Amoeba



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56. Analogy: Smallest cell :virus. Biggest cell \_\_\_\_



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57. Analogy: Unicellular organism :  
Chlamydomonas. ,br>Multicellular  
organism: \_\_\_\_\_



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58. Analogy: No true nucleus: Prokaryotic cell.  
True nucleus: \_\_\_\_\_



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59. Plant cell: Chloroplast. Animal cell: \_\_\_\_\_



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60. Give two examples of prokaryotic cell?



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61. What are the two types of cell?



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**62.** Define :Prokaryotic cells.



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**63.** Write about chloroplasts.



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**64.** List out the functions of the nucleus.



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**65.** Cell wall is called as supporter or protector.

Why?



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**66.** Write the characteristics of plant cell with diagram.



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**67.** Write the characteristics of animal cell with diagram.



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**68.** Draw the 3-dimensional cell structure and label the parts



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**69.** Difference between plant and animal cell.



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## Exercise

1. Approximate number of cells in the human body is \_\_\_\_.

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D.  $3.7 \times 10^{15}$

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C. Vacuoles

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**Answer:**



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3. The unit of measurement used for expressing dimension(size)of cell is \_\_\_

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**Answer:**





4. Which one is prokaryotic cell among the following?

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C. Nerve cell

D. Cyano bacteria cell

**Answer:**



5. \_\_\_\_\_ is present in plant cell only.



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6. The instrument used to observe the cell is \_\_\_\_\_.



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7. The Term "cell" was coined by \_\_\_\_\_.





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**10.** Find whether the following sentences are true or false. If false Correct the statement:  
The size of the bacterial cell ranges from 0.01micro meter to 0.5 micrometer.



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**11.** Distinguish between prokaryotic and eukaryotic cells.



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12. Why cells are called building blocks of life?



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13. Analogy: Spirogyra: Plant cell:: Amoeba:\_\_\_\_\_



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14. Analogy: Smallest cell :virus. Biggest cell\_\_\_\_\_



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15. Match the following:

i.	Control center	a)	Amoeba
ii.	Energy producer	b)	Nucleus
iii.	Longest cell	c)	Mitochondria
iv.	Unicellular cell	d)	Nerve cell



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16. Arrange in a correct sequence: Hen egg, Ostrich egg, Insect egg,



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**17. Define :Prokaryotic cells.**



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**18. What are the functions of nucleus.**



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**19. Tabulate any five cell organelles and their function.**



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**20.** Write the characteristics of animal cell with diagram.



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