



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

CELL-THE BASIC UNIT OF LIFE

Exercise

1. Who discovered the cell for the first time?

What procedure did he follow ?



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2. Name the factors on which shape of the cells depend?



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3. Distinguish between unicellular and multicellular organisms.



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4. How will you prepare slide without drying quickly?



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5. Deekshith said that, "we can't see cells with unaided eye". Is the statement true or false? Explain.



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6. Correct the statement and if necessary rewrite



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7. Correct the statement and if necessary rewrite.

Nucleus controls cells activity.



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8. Correct the statement and if necessary rewrite.

Unicellular organisms perform all life processes like respiration, excretion, growth, and reproduction.



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9. Correct the statement and if necessary rewrite.

To observe nucleus and organelles clearly, staining is not necessary.



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10. Describe the functions of nucleus.



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11. What is the difference between cells in onion peel and cells in spinach?



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12. Label parts for diagrammes given belwo?
And identify which one is plant cell and which
oen is animal cell.



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13. What questions will you pose to know
diversity in cells?



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14. Distinguish between unicellular and multicellular organisms.



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15. Collect different kinds of leaves from your surroundings and observe the shapes of the epidermal cells under microscope. Make a table, which contains serial number, name of the leaf, shape of the leaf, shape of the epidermal cells. Do not forget to write specific findings below the table.



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16. Make sketches of animal and plant cells which you observe under Microscope.



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17. Ammer said "Bigger onion has larger cells when compared to the cells of smaller onion". Do you agree the with his statement or not? Explain why?



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18. How do you appreciate the fact that animals. Man and trees are made of cells, which are very small and we can look at them through microscope?



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19. Deepak said, "A plant can't stand erect without cell wall". Support this statement.



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20. What are the structures present in the cells ?



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21. Why cells are considered to be structural and functional unit of life?



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22. What is the need of cell wall in plant cells?



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23. Have you seen the cells with naked eyes?



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24. In which year cell discovered?



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25. Name the scientist who observed cells.



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26. Is there any special devices used to study the cell?



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27. Name the different devices used for discovery of cell.



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28. Can we see living cells under the microscope?



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29. Prepare permanent slides of Onion cell, cheek cell and compare practically - what are the structures observed in the cells?



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30. Did you see a tiny dark stained thing in all cells ?



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31. Prepare permanent slide of onion cell, cheek cell and compare practically

What is the different between boundary of onion cell and cheek cell?



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32. Prepare permanent slide of onion cell, cheek cell and compare practically

What is the different between boundary of onion cell and cheek cell?



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33. Explain diverstiy in leaf cells practically.



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34. Make a sketch of blood cells.



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35. Draw a neat diagram of Chlamydomonas.



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36. Make a sketch of Amoeba.



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37. Have you listened to the words of the cell ?
Guess how big a cell is? Is this number and sizes of cells in both man and elephant the same? Are the cells of an elephant bigger than that of a man?



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38. Have you listened to the words of the cell ?
Guess how big a cell is? Is this number and sizes of cells in both man and elephant the

same? Are the cells of an elephant bigger than that of a man?



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39. Have you listened to the words of the cell ?

Guess how big a cell is? Is this number and sizes of cells in both man and elephant the same? Are the cells of an elephant bigger than that of a man?



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40. Prepare a slide of an onion peel and find out the special characters.



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41. Who discovered the cell for the first time?
What procedure did he follow ?



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42. Which part of cell contains cell organelles?





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43. What is the difference between cells in onion peel and cells in spinach?



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44. What are the structures present in the cells ?



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45. Why cells are considered to be structural and functional unit of life?



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46. In which year cell discovered?



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47. Name the scientist who observed cells?



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48. What is staining?



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49. What is 'magnification'?



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50. What are unicellular organisms? Give examples



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51. What is the meaning of 'Cell' in Latin ?



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52. "Cell wall is essential in plant cells" - Why ?



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53. What is the significance of cover slip in your preparation of slides ?



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54. How do you appreciate the role of microscope in the study of cell?



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55. Observe the permanent slides of human body cells in your school. Collect the data in a tabular form.



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56. Robert Hooke observed cells in the cork of
____ tree,

A. Oak

B. Neem

C. Mango

D. All the above

Answer:



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57. Nucleus was first observed by.

A. Robert Hooke

B. Robert Brown

C. Charles

D. Janssen

Answer:



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58. Brown claimed that the Integral part of the cell is

A. Cell wall

B. Cytoplasm

C. Stomata

D. Nucleus

Answer:



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59. Nucleus was first observed in the leaves of

A. Orchid

B. Oak

C. Wheat

D. Rice

Answer:



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60. The jelly like substance between nucleus and cell membrane

- A. Cytoplasm,
- B. Cell organelles
- C. Nucleoli
- D. All the above

Answer:



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61. Unicellular organism is

A. Bacteria

B. Chlamydomonas

C. Amoeba

D. All the above

Answer:



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62. Pseudopodia are present in

A. Elephant

B. Chlamydomonas

C. Amoeba

D. Rat

Answer:



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63. Outermost layer of the stem gives

A. Protection

B. Conduction

C. Nutrition

D. All the above.

Answer:



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64. Life processes are - i) Photosynthesis, ii) Respiration, iii) Excretion

A. i and ii

B. ii and iii

C. i only.

D. All the above.

Answer:



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65. The first compound microscope was made in the year 1595 by

A. Robert Brown

B. Hooke

C. Janssen

D. John

Answer:



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66. The structural and functional unit of living body ...

A. Cell wall

B. Cytoplasm

C. Nucleus

D. Cell

Answer:



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67. The following had played a key role in the discovery of cell world ...

A. Bioscope

B. Telescope

C. Microscope

D. Thermometer

Answer:



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68. Examples of dead cells are

A. WBC

B. Never cell

C. Blood cell.

D. Cork cell

Answer:



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69. The size of the organism is depending upon

A. The number of cells present

B. The size of the cells

C. The shape of the cells

D. None

Answer:



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70. The cell organelle which gives mechanical strength in plant cell

A. Cell wall

B. Cell membrane

C. Cytoplasm

D. Nucleus

Answer:



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71. The chief function of Pseudopodia is

A. Locomotion

B. Collection of food

C. Reproduction

D. Both A and B

Answer:



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72. The shape of RBC is

A. Round

B. Concave

C. Convex

D. Both A and B

Answer:



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73. The size of the nerve cell in a man is about

A. 100-200cm

B. 20-50 cm

C. 70-80 cm

D. 90-100 cm

Answer:



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74. This is an example for unicellular animal

A. Amoeba

B. Euglena

C. E-coli

D. All the above

Answer:



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75. The word 'cell' is derived from

A. English

B. French

C. Latin

D. Greek

Answer:



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76. Cell in Latin means -

- A. Dark room
- B. Honey comb
- C. Little Room
- D. Bright Room,

Answer:



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77. The round dense body in the cell is called

A. Cell wall

B. Nucleus

C. Cell membrane

D. Cytoplasm

Answer:



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78. The smallest cell is

A. Plant cell

B. Fungus cell

C. Bacteria cell

D. Ostrich egg

Answer:



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79. Largest cell is

- A. Bone cell
- B. Egg of Ostrich
- C. Egg of Eagle
- D. Never cell

Answer:



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80. 1 micro meter = ____ nano meters.

A. 100

B. 10000

C. 100000

D. 1000

Answer:



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81. One of the following is a multicellular animal

A. Bacteria

B. Virus

C. Chlamydomonas

D. Cockroach

Answer:



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82. The size of the cell is related to its

A. Function

B. Location

C. Position

D. None

Answer:



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83. This will result in plants if there are not stomata in terrestrial plants (mostly)

- A. No transpiration will occur
- B. No exchange of gases will take place
- C. There will be no affect on plants
- D. Both A and B

Answer:



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84. The following one is a staining agent

A. Red stain

B. Safranin

C. Methylene Blue

D. All the above

Answer:



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85. This is necessary for the preparation of slide

A. Dropper

B. Needle

C. Cover slip

D. All the above

Answer:



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86. This gives rigidity to the cell ...

A. Cell membrane

B. Cell wall

C. Nucleus

D. None

Answer:



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87. Robert Hooke discovered the cell in

A. Grass leaves

B. Slices of cork

C. Leaves of orchid

D. Leaves of Rose

Answer:



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88. Example for multicellular organism

A. Amoeba

B. Euglena

C. Hydra

D. Paramecium

Answer:



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89. Which of the following statement is wrong

A. Bigger onion has larger cells when compared to the cells of smaller onion

B. A plant can't stand erect without cell wall

C. Majority of the cells are too small to be seen with naked eye

D. Cells are different shape, size and number

Answer:



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