



BIOLOGY

BOOKS - S CHAND BIOLOGY (HINGLISH)

THE FUNDAMENTAL UNIT OF LIFE: CELL

Exercise

1. Viruses are non-cellular living organisms.



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2. Amoeba is a multicellular organism.

True or False.

A. True

B. False

C.

D.

Answer: B



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3. Plant cells are bounded by a wall composed of cellulose.

A. T

B. F

C.

D.

Answer: A



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4. Cellulose is a protein.



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5. Plasma membrane is present in all cells.

True or False.

A. True

B. False

C.

D.

Answer: A



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6. Blue green algae hav prokaryotic cells.



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7. All kinds of plastids have pigments.



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8. Nucleolus has a limiting membrane.

True or False.

A. True

B. False

C.

D.

Answer: B



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9. Outer and inner membranes of chloroplasts have chlorophyll pigment.

True or False

A. True

B. False

C.

D.

Answer: B



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10. Ribosomes are made up of deoxyribonucleic acid and proteins.

True or False.

A. True

B. False

C.

D.

Answer: B



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11. The oxidation of food in a cell takes place in mitochondria.



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12. Plastids are called the kitchen of a plant cell.



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13. Cell wall of plant cell is a living structure.

True or False.

A. True

B. False

C.

D.

Answer: B



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14. Cork comes from bark.



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15. Robert Brown discovered protoplasm in 1831.(true/false)



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16. Cell forming body of Amoeba has an ever changing shape.



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17. Movement of a substance from the area of low concentration to an area of high concentration is called diffusion.



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18. A dilute solution is called hypertonic solution.

True or False.

A. True

B. False

C.

D.

Answer: B



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19. Lysosomes keeps the cells clean by digesting foreign materials and worn out cell

organelles.

True or False.

A. True

B. False

C.

D.

Answer: A



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20. Smooth endoplasmic reticulum detoxifies many poisons and drugs.



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21. Central vacuole occupies 10 – 20% of plant cell volume.



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22. The are an exception to cell theory.



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23. The nuclear region of prokaryotic cells is called.....



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24. The term protoplasm was coined by



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25. Ultrastructure of cell organelles can be studied by



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26. An ostrich egg is the animal cell.



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27. Amoeba can change their
continuously.



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28. Cell is the basic and Unit of all living organisms.



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29. Cellular organelles called, are often referred to as suicidal bags.



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30. Ribosomes are concerned with the synthesis of



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31. Function of mitochondria is,
production.



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32. Chromosomes are made up of nucleic acid and



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33. Cell theory was first given by, and



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34. The additional protective layer in plants present outside the plasma membrane is called



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35. Cell wall is found only in, cells.



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36. Mitochondrial cristae from a large surface area for, generation reactions.



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37. Plant cell wall is mainly composed of



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38. Cell organelles perform, function in all organisms.



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39. Cell theory was refined by



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40. Cell were discovered by Robert Hooke in



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41. Match the contents of the column I and II

| <i>Column I</i> | <i>Column II</i> |
|--------------------------|-----------------------|
| 1. Robert Hooke | (a) protoplasm |
| 2. Robert Brown | (b) cell theory |
| 3. Schleiden and Schwann | (c) the term 'cell' |
| 4. Von Mohl | (d) diffusion |
| 5. Cellulose | (e) nucleus |
| 6. Glycogen | (f) inheritance |
| 7. Mitochondria | (g) energy |
| 8. Chromosomes | (h) glucose synthesis |
| 9. Chloroplasts | (i) Golgi apparatus |
| 10. Nucleus | (j) storage |
| 11. Cell wall | (k) Cellulose |
| 12. Central vacuole | (l) DNA plus histone |
| 13. Chromatin | (m) double membrane |
| | (n) cell sap |



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42. Match the contents of Column I, II and III.

| Column I | Column II | Column III |
|-----------------------------|-------------------------------|---------------------------|
| (a) Multicellular organisms | (i) Lipids | I. Turgidity |
| (b) Mitochondrion | (ii) Plants | II. Inner folded membrane |
| (c) Plasma membrane | (iii) Cell sap | III. Proteins |
| (d) Central vacuole | (iv) Outer permeable membrane | IV. Animals |
| (e) Chloroplast | (v) Digestive enzymes | V. Phagosome |
| (f) Lysosomes | (vi) Carbon dioxide | VI. Thylakoid |



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43. Which type of metabolism, anabolism (A) and catabolism (C) are performed by the following organelles.

| Organelle | Metabolism |
|-------------------------------|------------|
| 1. Mitochondria | |
| 2. Lysosomes | |
| 3. Chloroplasts | |
| 4. Endoplasmic reticulum (ER) | |
| 5. Golgi apparatus | |



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44. Write down three basic characteristics of a cell.



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45. What do you mean by unicellular and multicellular ?



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46. What is division of labour ? Explain it in context of multicellular organisms.



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47. Why does viruses form a exception to cell theory?



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48. Name the largest plant cell.



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49. Define the following terms: cell prokaryotic cell, eukaryotic cell, organelle.



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50. Briefly describe the structure and functions of cell wall.



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51. Describe the structure and functions of nucleus.



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52. What are diploid and haploid number?



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53. Describe structure of a chromosome.



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54. Describe structure and functions of plasma membrane.



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55. What do you mean by passive and active transport? Write a note on diffusion.



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56. Describe the mechanism of osmosis. Give its importance.



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57. Write a note on plasmolysis,



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58. What is endoplasmic reticulum ? Give its types and functions.



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59. Describe structure and functions of Golgi apparatus.



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60. What are lysosomes ? How are they formed? Give their functions.



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61. Discuss the structure and functions of mitochondria.



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62. What the help of a labelled diagram describe the structure of a chloroplast.



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63. The term cell was coined by and the cell was first seen by

A. Leeuwenhoek

B. Robert Hooke

C. Fleming

D. Robert Brown

Answer: B



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64. Who proposed the "Cell theory"

A. Schleiden and Schwann

B. Watson and Crick

C. Darwin and Wallace

D. Mendel and Morgan

Answer: A



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65. The longest cell in the human body is

A. never cell

B. muscle cell

C. liver cell

D. kidney cell

Answer: A



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66. The number of lenses in compound light microscope is

A. 2

B. 3

C. 4

D. 1

Answer: A



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67. The history of the cell began in 1665 with the publication of *Micrographia* in London by

A. Robert Hooke

B. Robert Brown

C. Starbucker

D. Dujardin

Answer: A



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68. The idea 'omnis cellula e cellula' which means that all living cells arise from preexisting cells was given by

A. Robert Brown

B. Purkinje

C. Rodolf Virchow

D. Schleiden

Answer: C



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69. Which of the following has an irregular or variable shape ?

A. Euglena

B. Paramecium

C. Amoeba

D. Acetabularia

Answer: C



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70. Genetic material of a eukaryotic cell is contained in

A. nucleous

B. nucleus

C. nucleoplasm

D. nucleoid

Answer: B



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71. Nucleolus is a seat of

A. protein synthesis

B. ribosome synthesis

C. enzyme synthesis

D. mRNA synthesis

Answer: B



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72. Middle lamella is formed of

A. calcium pectate

B. cellulose

C. hemicellulose

D. lignin

Answer: A



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73. Plasma membrane is

A. permeable

B. selective permeable

C. semipermeable

D. impermeable

Answer: B



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74. A cell placed in solution swells up. The solution is

A. hypertonic

B. isotonic

C. hypotonic

D. both a and b

Answer: C



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75. A cell placed in hypotonic solution bursts up. It is

A. animal cell

B. bacterial cell

C. fungal cell

D. plant cell

Answer: A



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76. Bulk transport occurs through

A. endocytosis

B. exocytosis

C. osmosis

D. Both A and B

Answer: D



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77. Cytoplasm is

A. unit mass of protoplasm

B. protoplasm excluding plasma membrane

C. protoplasm excluding plasma membrane

and and nucleus

D. protoplasm excluding plasma membrane
and cell organelles

Answer: C



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78. RER is rough as it contains the

A. detoxification centres

B. carbohydrate synthesizing machinery

C. ribosomes

D. lysosomes

Answer: C



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79. Protein storing plastid is

A. aleuroplast

B. amyloplast

C. elaioplast

D. both b and c

Answer: A



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80. Seat of photosynthesis is

- A. leucoplast
- B. chloroplast
- C. chromoplast
- D. both a and c

Answer: B



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81. Mitochondria are seats of

- A. aerobic respiration
- B. Krebs cycle of aerobic respiration
- C. glycolysis of aerobic respiration
- D. anaerobic respiration

Answer: A



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82. Golgi apparatus is involved in synthesis of

A. new membranes

B. new membranes and lysosomes

C. cellulose

D. glucose

Answer: C



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83. Lysosomes are also called

- A. suicide bags
- B. digestive bags
- C. demolition squads
- D. all the above

Answer: D



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84. Contractile vacuoles take part in

A. absorption of water from outside

B. osmoregulation

C. excretion

D. both b and c

Answer: B



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85. Centrosome occurs in

A. plant cells

B. animal cells

C. animal cells and some lower plant cells

D. all the above

Answer: C



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86. Who discovered the cell ?



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87. Name the publication in which Robert Hooke (1665) described his discovery of the cell.



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88. Who coined the term protoplasm for living matter?



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89. Who did propose cell theory ?



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90. Name the largest plant cell.



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91. name the longest animal cell.



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92. Give an example of prokaryotic cell.



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93. What is example of a eukaryotic cell ?



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94. Name the phenomenon by which raisins placed in water swell up.



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95. Whether ATP molecules are consumed in the process of osmosis ?



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96. What is the function of lignin deposition in cell wall ?



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97. What is the characteristic of nuclear envelope



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98. What structures are involved in the formation of chromatin ?



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99. Where is nucleus located in a cell ?



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100. What is the term used for subcellular structures having characteristic forms and

functions



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101. What is cytosol ?



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102. How is food vacuole formed ?



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103. What is the name of membrane surrounding sap vacuole?



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104. What is the name of fluid contained in a vacuole of a plant cell ?



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105. What is dictyosome ?



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106. Where are vesicles are formed in Golgi apparatus



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107. Where does ATP synthesis occur in mitochondria ?



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108. When did Robert Hooke discover cell ?



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109. Who among Scheiden and Schwann was zoologist and botanist ?



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110. Who invented the "electron microscope" ?



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111. What is shape of a RBC ?



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112. What is the peculiarity of nerve cell ?



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113. What will happen if an animal cell is placed in hypertonic solution ?



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114. What will happen if an animal cell is placed in hypertonic solution ?



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115. Cytoplasmic bridges between adjacent plant cells are called ?



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116. How many chromosomes are present in human cells ?



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117. What is a tonoplast



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118. Inner mitochondrial membrane has a number of infoldings called





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119. Which one are the protein factories of the cells?



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120. Where are photosynthetic pigments present in chloroplast ?



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121. Where do contractile vacuules occur ?



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122. Differentiate between the following

(i) Endocytosis and exocytosis

(ii) Cis and trans faces of Golgi apparatus

(c) Chromosome and chromatid

(iv) Write function of nucleolus



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123. Describe secretion in cell.



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124. Plasma membrane



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125. Golgi apparatus



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126. What are semiautonomous cell organelles?



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127. Grana-The kitchen of the cell



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128. Mitochondria-Oxygen consumer



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129. Why are lysosomes also known as scavengers of the cells?



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130. Study the basic difference between animal and plant cells.



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131. Collect the information about chromosome number of organisms known to you.



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132. Perform an activity to study the principle of diffusion



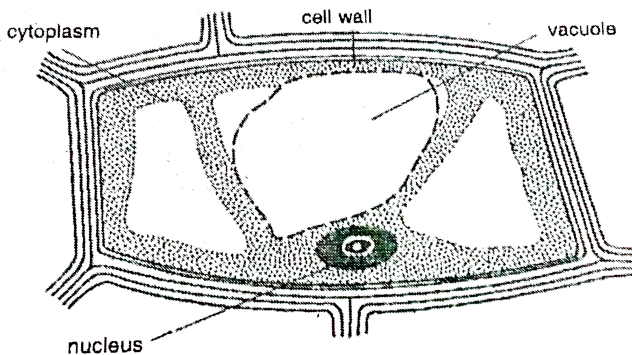
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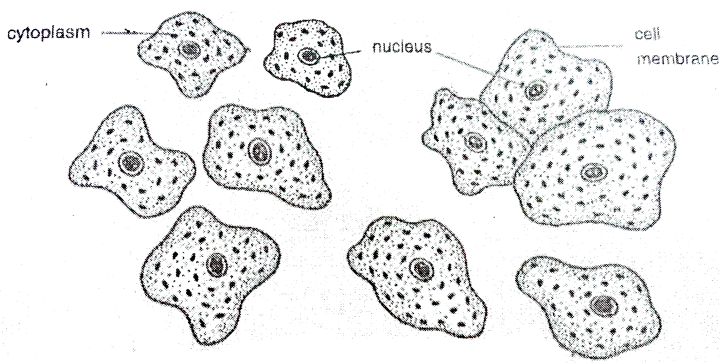
133. Study the plasmolysis in Rheo leaf peels



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134. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.





Human cheek cells are commonly stained with

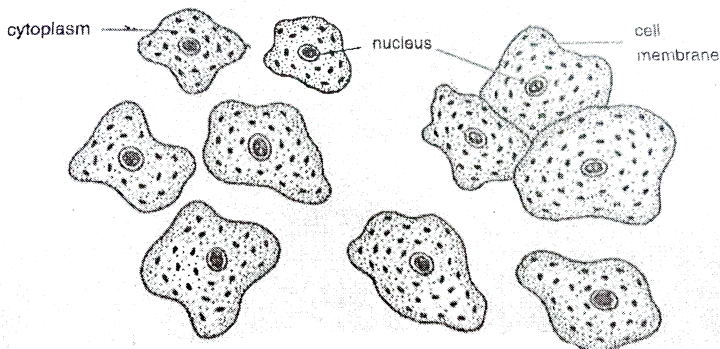
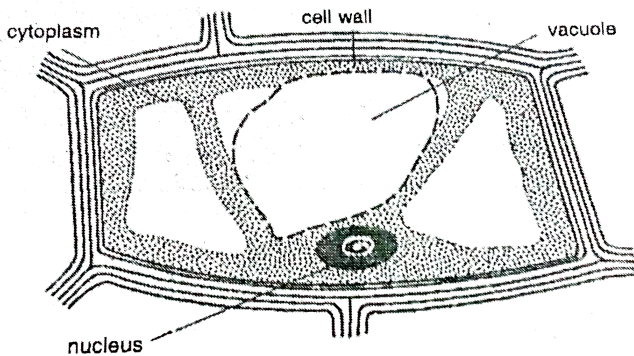
- A. safranin
- B. methylene blue
- C. acetocarmine
- D. eosine

Answer: B



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135. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



Name of stain which is commonly used to study plant cells

A. safranin

B. cotton blue

C. methylene

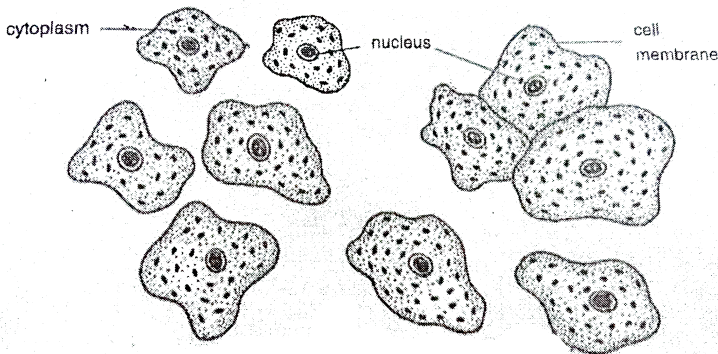
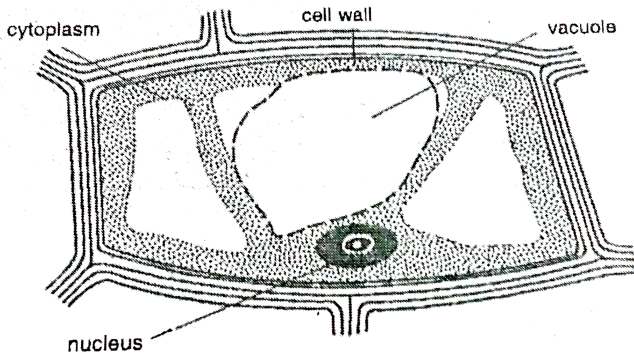
D. acetocarmine

Answer: A



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136. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



Temporary mount of a tissur is made in

A. wax

B. alcohol

C. glycerine

D. xylene

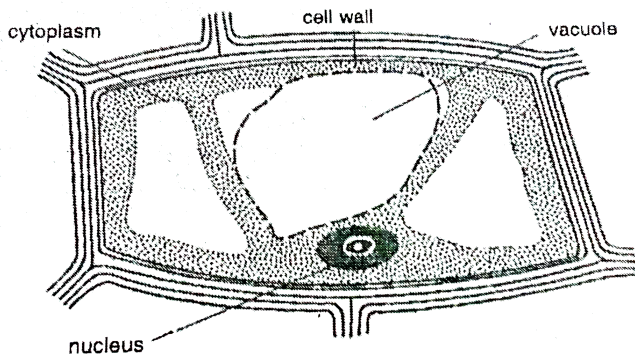
Answer: C



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137. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled

diagram.



Safranin is a reagent that is used to stain

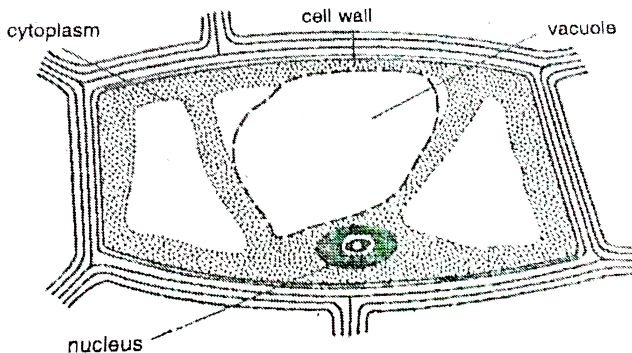
- A. nucleus
- B. cytoplasm
- C. cell wall
- D. plasmodesmata

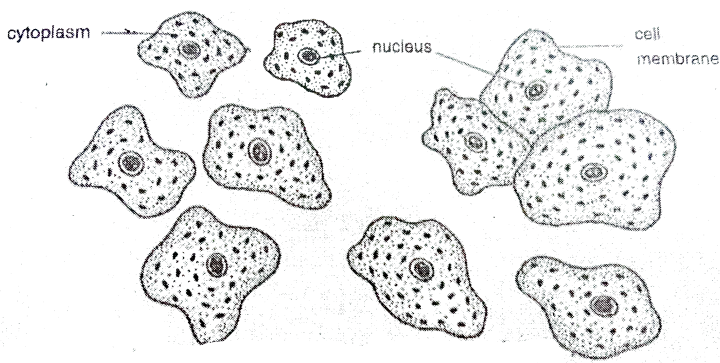
Answer: C



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138. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.





We generally mount the material in the slide

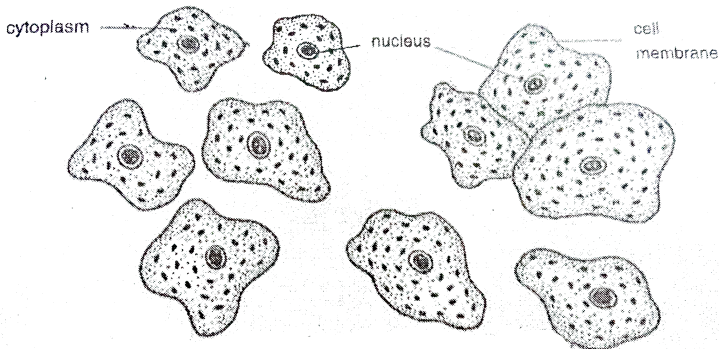
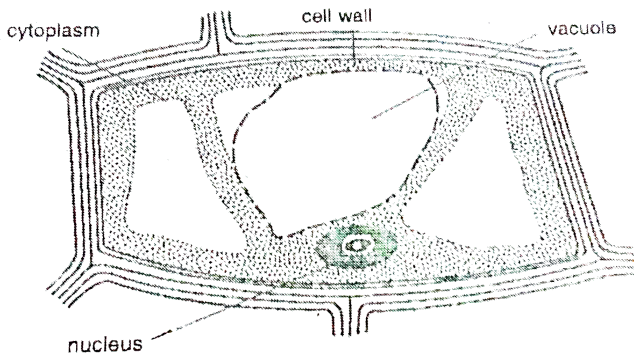
- A. in the centre
- B. on the left side of slide
- C. on the right side of slide
- D. both (b) and (c)

Answer: A



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139. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



Coverslip is put on the mounted material on a slide very gently to

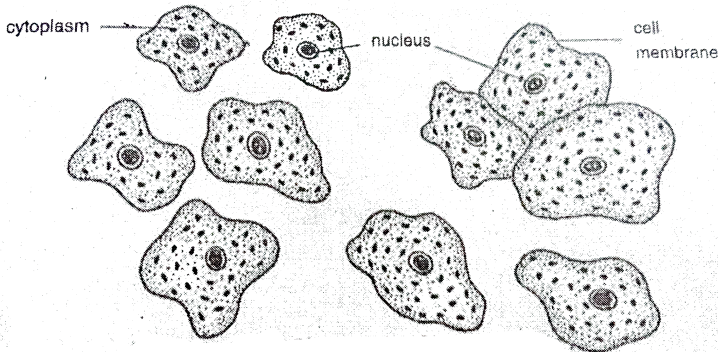
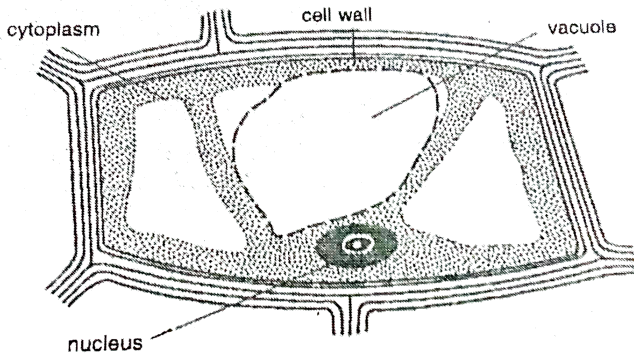
- A. avoid the crushing of mounted material
- B. avoid the entry of air bubble
- C. avoid cozing of stain
- D. avoid oozing of glycerine

Answer: B



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140. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



Definite shape of cell is seen in case of

A. plant cell

B. animal cell

C. both animal and plant cell

D. neither animal nor plant cell

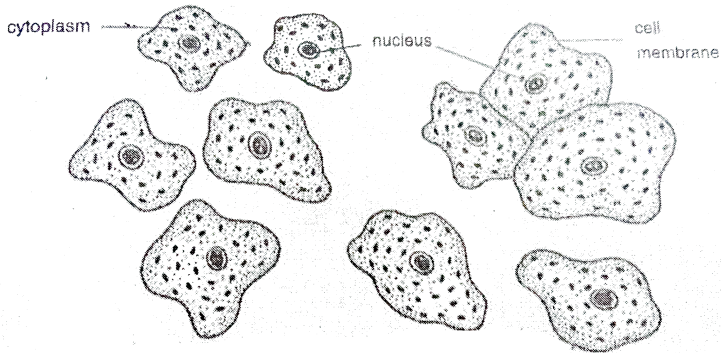
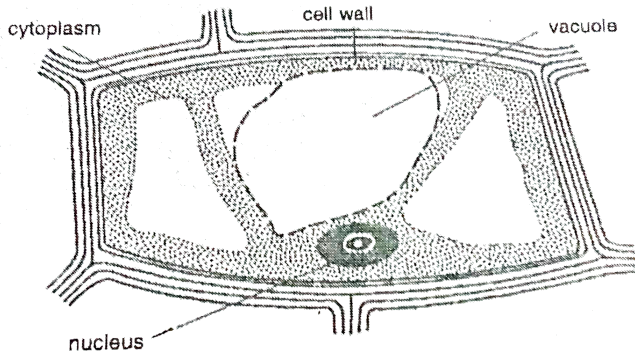
Answer: B



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141. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled

diagram.



The outer most layer of human cheek cells is

A. cytoplasm

B. plasma membrane

C. cell wall

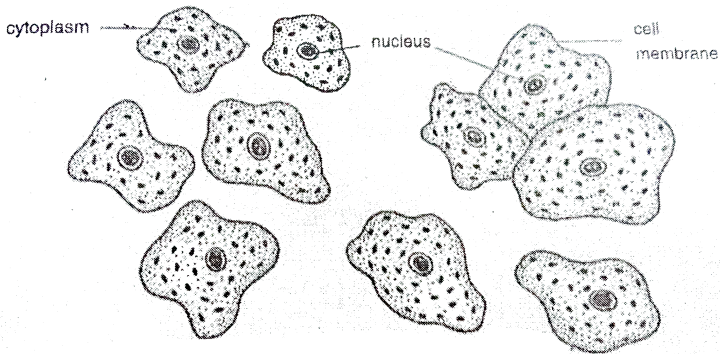
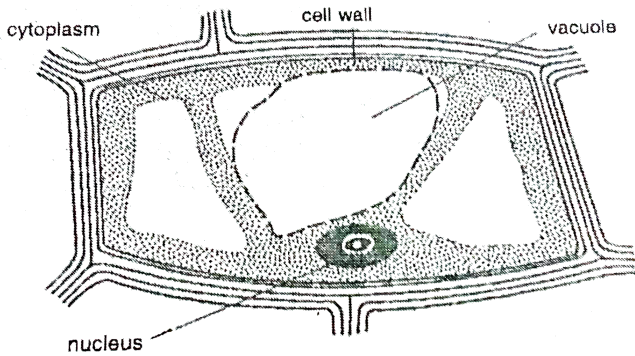
D. nuclear membrane

Answer: B



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142. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



The outer most covering of a plant cell is

A. plasma membrane

B. cell wall

C. vacuole membrane

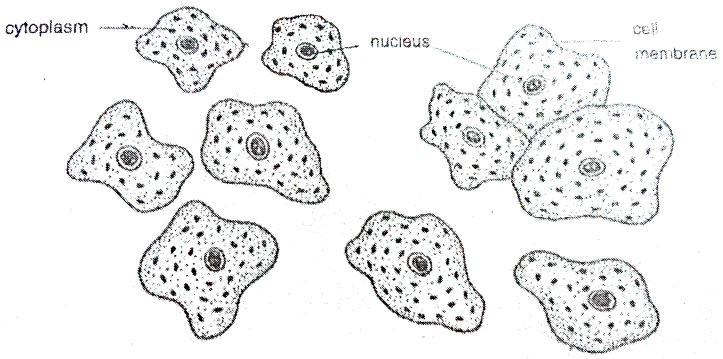
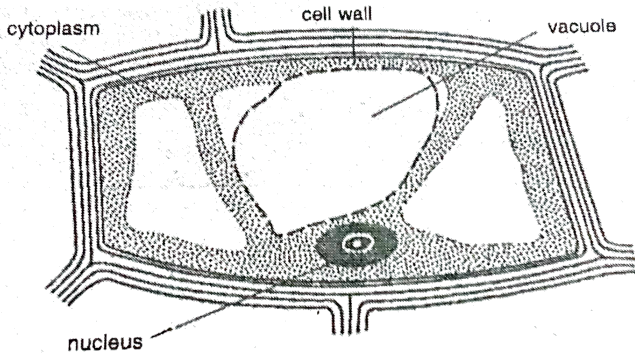
D. nuclear membrane

Answer: B



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143. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



Cell wall in plant cells is made of

- A. starch
- B. glycogen
- C. cellulose

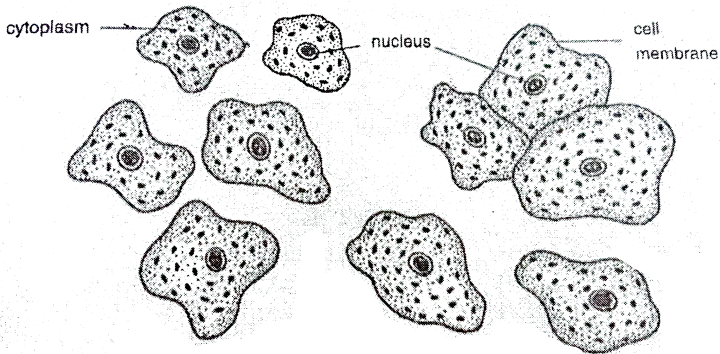
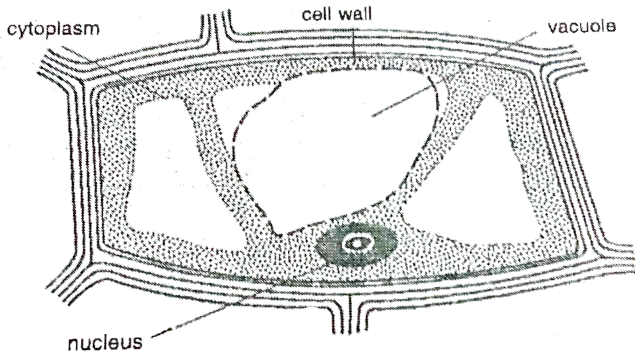
D. chitin

Answer: C



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144. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



The structural or functional unit of life is

A. tissue

B. organ

C. organ system

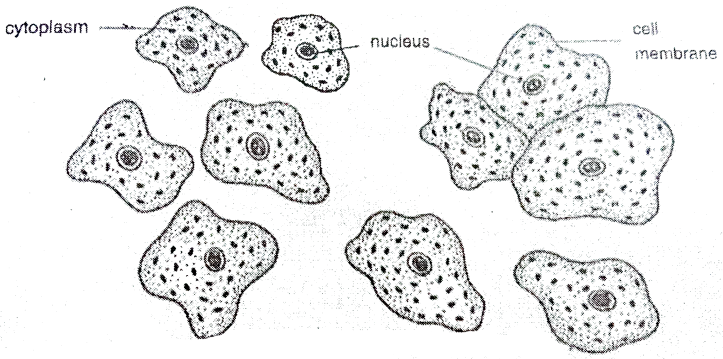
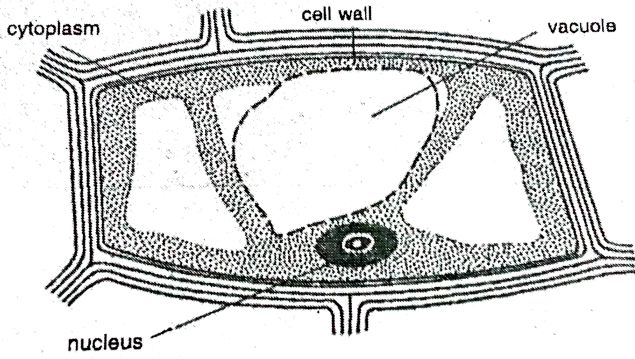
D. cell

Answer: D



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145. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



Nucleus was discovered by

- A. Robert Hooke
- B. Robert Brown
- C. Virchow

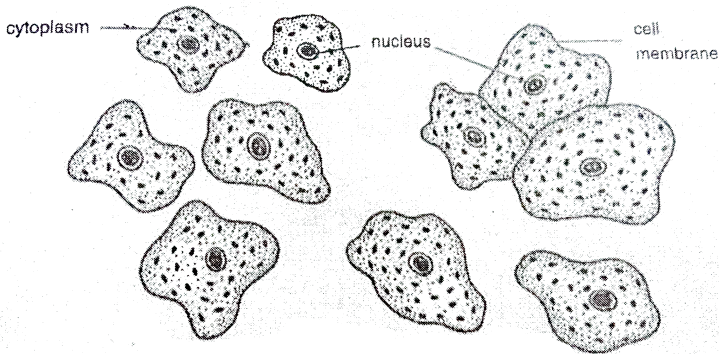
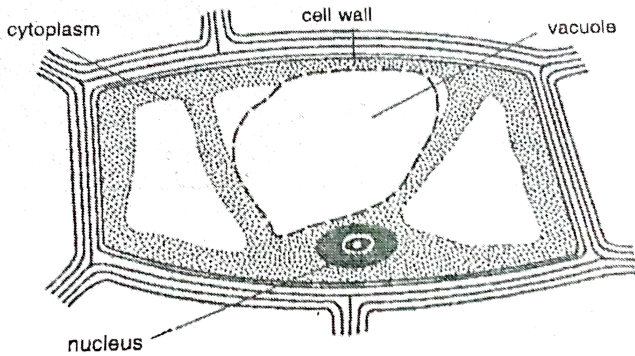
D. Schleiden

Answer: B



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146. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



In plant cells, nucleus is generally placed

A. in the centre

B. on one side of the cell

C. attached to plasma membrane

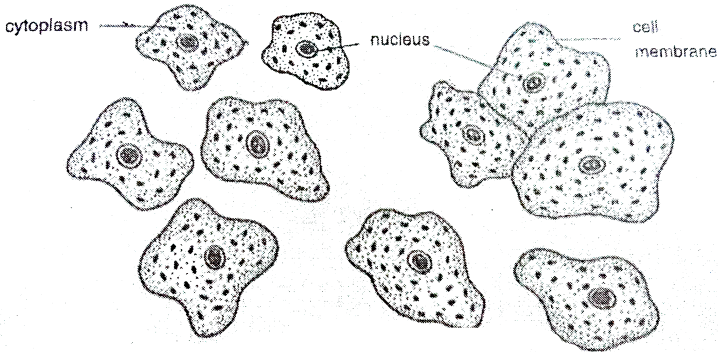
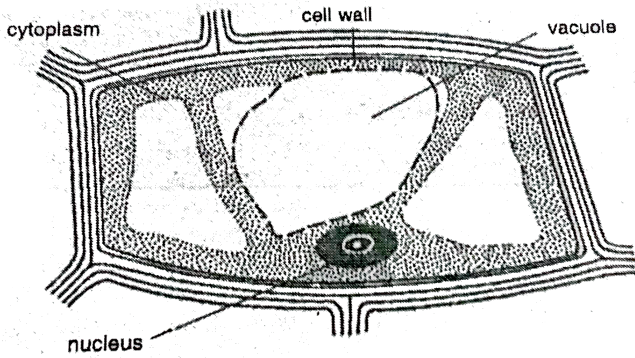
D. on one corner of the cell

Answer: B



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147. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



In human cheek cells, nucleus is generally located

A. near the plasma membrane

B. on one side

C. in the centre

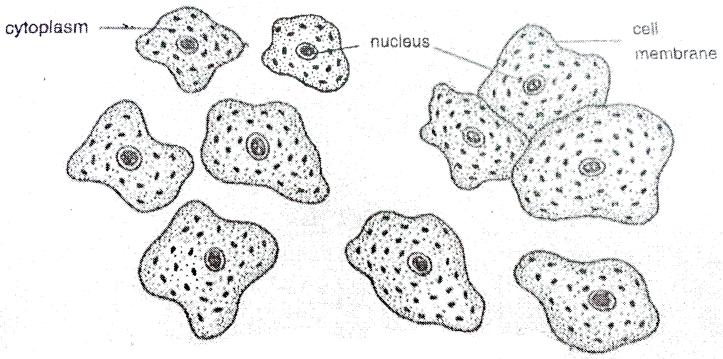
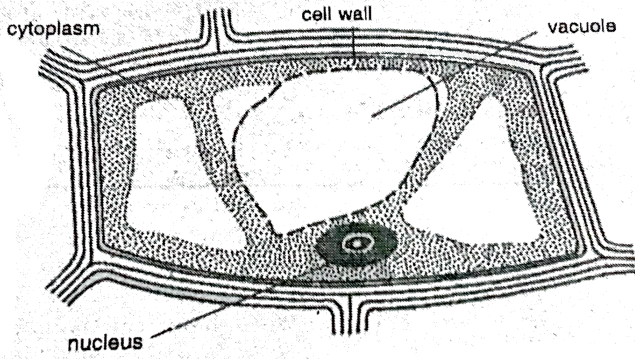
D. on border

Answer: C



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148. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



In plant cells, cell wall is

- A. dynamic and live
- B. rigid and nonliving
- C. dynamic and non-living

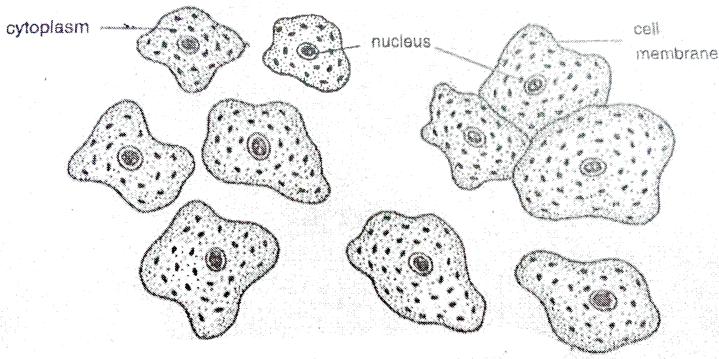
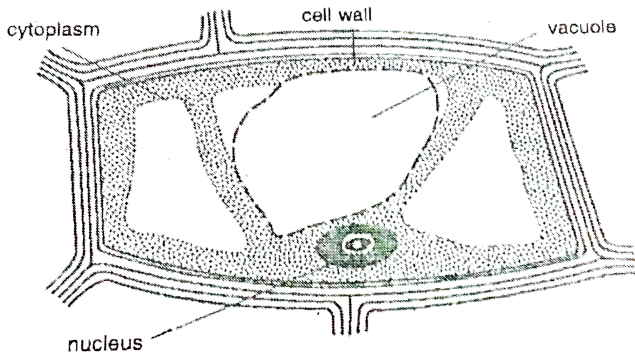
D. rigid and living

Answer: B



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149. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



In plant cells, cell to cell contact is maintained through

A. tight junctions

B. desmosomes

C. interdigitation

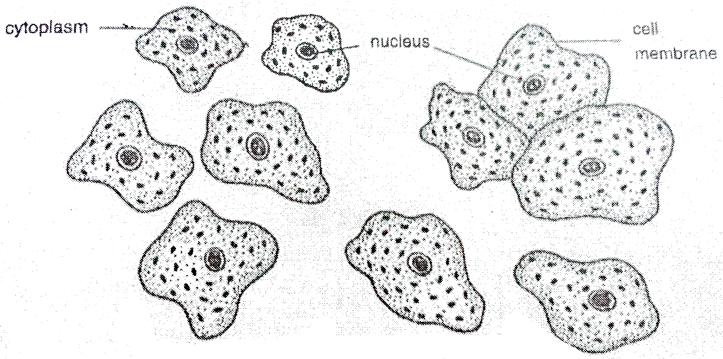
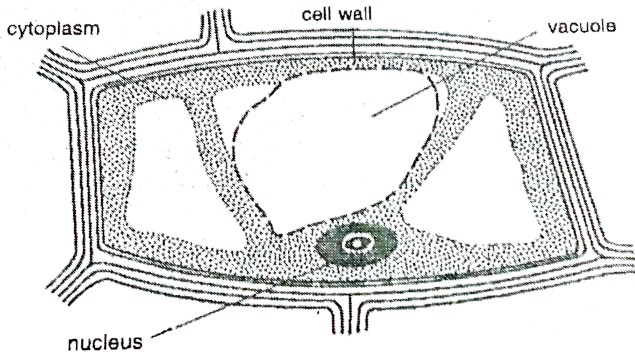
D. plasmodesmata

Answer: D



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150. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



In plant cells, nucleus is generally

- A. cylindrical
- B. rounded
- C. discoidal

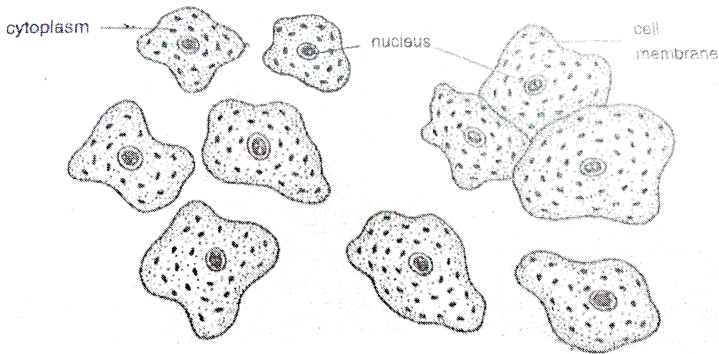
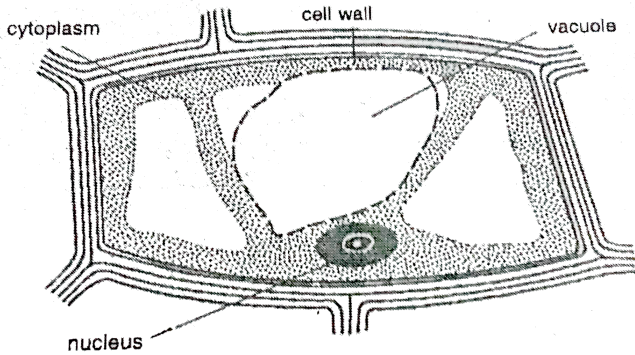
D. elliptical

Answer: B



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151. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



Plant cells generally have

- A. big but less number of vacuoles
- B. small but large number of vacuoles
- C. no vacuole at all

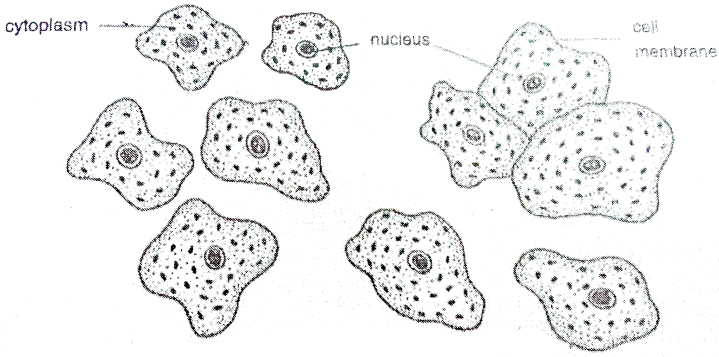
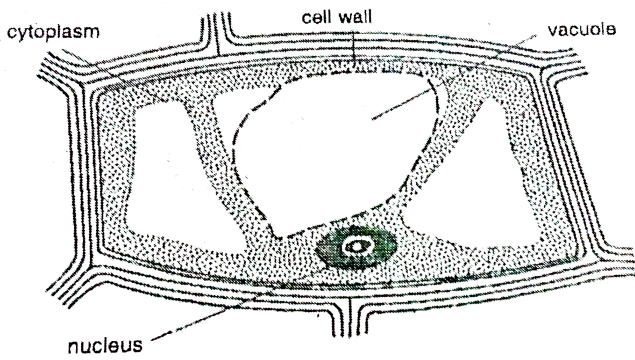
D. all equal sized vacuoles

Answer: A



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152. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



The cels are first focussed in microscope under

A. 40 X

B. 10X

C. 100X

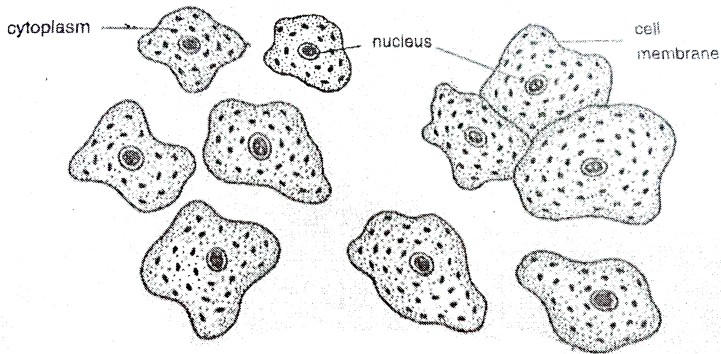
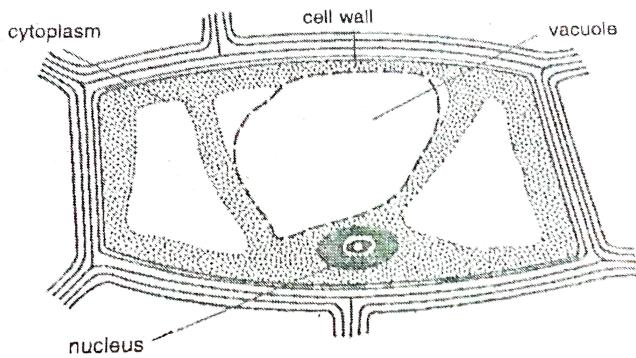
D. any of these

Answer: B



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153. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



The organelle not present in human cheek cells is

A. nucleus

B. plasma membrane

C. mitochondria

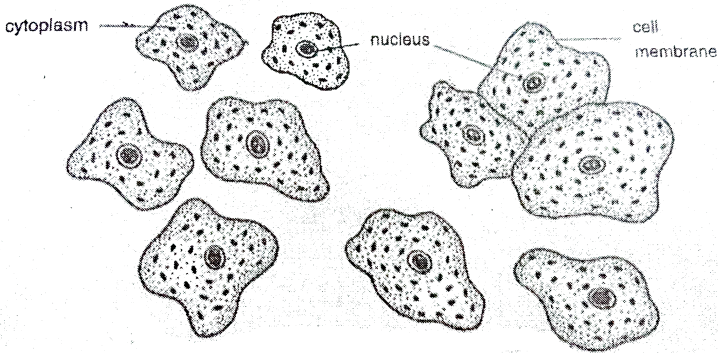
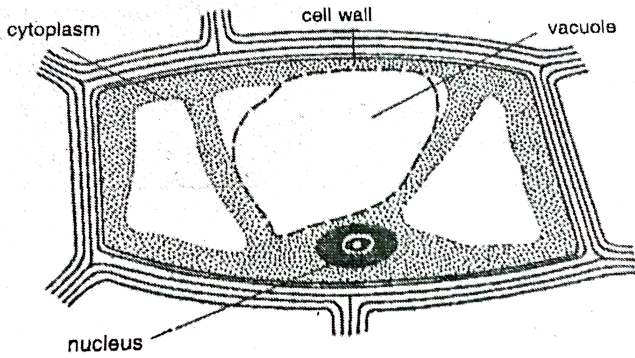
D. chloroplast

Answer: D



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154. To prepare stained temporary mounts of (a) onion peel, and (b) human cheek cells and to record observations and draw their labelled diagram.



The cell wall of plants is made up of cellulose which is a

A. lipid

B. protein

C. polysaccharide

D. amino acid

Answer: C



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155. What is microscope ?



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156. What is microscopic?



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157. Name the instrument used for obtaining magnified images of small objects.



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158. Name the parts of a compound microscope in which two different types of lenses are used.



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159. How can you calculate the magnification of a microscope ?



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160. Why is light microscope called a compound microscope'?



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161. Give one main difference between a light microscope and an electron microscope



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162. What is the used of glycerine in mounting of stained materials on slides ?



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163. Why should you hold coverslip only from its edges ?



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164. What is outer most later found in animal cells ?



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165. What is outer most layer found in the plant cell ?



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166. Name two structures found in plant cells and not in animal cells.



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167. Give one single character, on the basis of which you can say that the given diagram is of a plant cell.



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168. Name two structures found only in animal cells and not in plant cells.



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169. A drop of ink is placed gently at the base of a beaker containing water by means of a dropper. What will happen ?



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170. Plasma membrane is permeable to water. How does a cell show endosmosis or exosmosis ?



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171. Hypertonic solution causes plasmolysis where the protoplast shrinks and withdraws from the cell wall at most places. What is present between the shrunken protoplasts and cell wall?



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172. What is crenation ?



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173. What would happen if shelled raw egg and deshelled boiled egg are placed in water



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174. Why do dry apricot placed in salt solution do not swell while they do so when kept in water?



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175. What type of organization is found in the plasma membrane ?



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176. Double membrane is absent in

- (a) nucleus
- (b) mitochondria
- (c) chloroplast
- (d) lysosomes



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177. Plasmolysis in a plant cell is defined as



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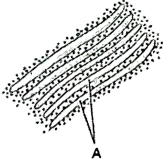
178. Lysosomes form a kind of demolition squads of the animal cell.



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179. Match the stimuli with response

| <i>Organelle</i> | <i>Storage of protein A</i> | <i>Oxysome B</i> | <i>Cell division C</i> |
|---|-----------------------------|------------------|------------------------|
| 1. Mitochondria 2. Centrioles 3. Aleuroplasts | | | |



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180. Differentiate between plasma membrane and cell wall.



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181. Describe the structure and functions of nucleus.



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182. Describe the structure and functions of mitochondria. Write two differences in function mitochondria and chloroplasts



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183. Main difference between animal cell and plant cell is

A. nutrition

B. growth

C. movement

D. respiration

Answer: A



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184. Animal cell lacking nuclei would also lack
in

A. chromosome

B. ribosome

C. lysosome

D. endoplasmic reticulum

Answer: A



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185. Plasmolysis occurs due to

A. absorption

B. endosmosis

C. osmosis

D. exosmosis

Answer: A



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186. Solute concentration is higher in the external solution

A. hypotonic

B. isotonic

C. hypertonic

D. none of the above

Answer: c



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187. A cell placed in hypotonic solution will

A. shrink

B. show plasmolysis

C. swell up

D. no change in shape or size

Answer: A



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188. Which of the following is known as "physical basis of life" ?

A. gene

B. protoplasm

C. nucleolus

D. mitochondria

Answer: A



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189. Which of the following is incorrect pair ?

A. chloroplast-kitchen of the cell

B. mitochondria-power house of the cell

C. lysosome -secretory granules

D. nucleus-brain of the cell

Answer: A



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190. Photosynthetic pigments are located in

A. stroma

B. outer membrane of chloroplast

C. grana

D. inner membrane of chloroplast

Answer: A



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191. Which of the following act as garbage disposal system of the cell ?

A. Golgi apparatus

B. lysosome

C. vacuole

D. peroxisome

Answer: A



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192. Ribosomes are made up of

A. lipoprotein

B. RNA

C. protein

D. both (b) and (c)

Answer: A



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193. Colourless plastids are known as

A. leucoplasts

B. chromoplasts

C. chloroplasts

D. none of the above

Answer: A



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194. Chlorophyll is present in

A. matrix

B. stroma

C. cristae

D. thylakoid

Answer: A



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195. Cell wall of plant cells is chiefly composed of

A. hemicellulose

B. cellulose

C. phospholipids

D. proteins

Answer: b



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196. Intercellular connections in plant cells are called

A. middle lamella

B. microfibrils

C. matrix

D. plasmodesmata

Answer: A



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197. The infoldings in mitochondria are known as

A. cristae

B. matrix

C. cisternae

D. grana

Answer: A



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198. Aleuroplasts in cell store

A. starch

B. oil

C. protein

D. nutrients

Answer: A



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199. Well defined nucleus is absent in

- A. Plant cell
- B. animal cell
- C. eukaryotic cell
- D. prokaryotic cell

Answer: A



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200. Mitochondria are the seat of

- A. anaerobic respiration
- B. trapping of sunlight
- C. Krebs cycle
- D.

Answer: c



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201. First living cells were observed by

A. A.V. Leeuwenhoek

B. Robert Hooke

C. R. Virchow

D. Robert Brown

Answer: A



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202. Membrane which allows passage of only solvent through it is

A. differentially permeable

B. semipermeable

C. impermeable

D. both (a) and (b)

Answer: A



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203. Unicellular organisms take in oxygen and pass out carbon dioxide through

A. diffusion

B. exosmosis

C. endosmosis

D. active transport

Answer: A



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204. Root hairs of plants absorb water from soil through

A. diffusion

B. imbibition

C. osmosis

D. all the above

Answer: A



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205. The underlined unclear region of prokaryotes is also known as

A. nucleus

B. nucleolus

C. nucleic acid

D. nucleoid

Answer: D



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206. The only cell organelle seen in prokaryotic cell

A. mitochondria

B. ribosomes

C. plastids

D. lysosomes

Answer: B



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207. Cell theory was given by

A. Schleiden and Schwann

B. Virchow

C. Hooke

D. Haeckel

Answer: A



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208. Cell arise form pre-existin cell was stated
by

A. Haeckel

B. Virchow

C. Hooke

D. Schleiden

Answer: B



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209. Kitchen of the cell is

A. mitochondrion

B. chloroplast

C. endoplasmic reticulum

D. Golgi-apparatus

Answer: B



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210. Organelle without a cell membrane is

A. ribosome

B. nucleus

C. mitochondrion

D. chloroplast

Answer: A



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211. Which of the following are covered by a single membrane ?

A. mitochondra

B. vacuole

C. nucleus

D. plastid

Answer: B



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212. Lipid molecules in the cell are synthesized
by

A. smooth endoplasmic reticulum

B. rough endoplasmic reticulum

C. Golgi apparatus

D. plastids

Answer: A



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213. The proteins and lipids, essential for building the cell membrane, are manufactured by

A. endoplasmic reticulum

B. Golgi apparatus

C. mitochondria

D. peroxisomes

Answer: A



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214. Lysosomes arise from

A. endoplasmic reticulum

B. Golgi apparatus

C. nucleus

D. mitochondria

Answer: B



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215. Amoeba acquires its food through a process termed as

A. exocytosis

B. endocytosis

C. plasmolysis

D. exocytosis and endocytosis both

Answer: B



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216. Which cell organelle plays a crucial role in detoxifying many poisons and drugs in a cell ?

A. Golgi apparatus

B. lysosomes

C. smooth endoplasmic reticulum

D. vacuoles

Answer: C



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217. Chromosomes are made up of

A. DNA

B. protein

C. DNA and protein

D. RNA

Answer: C



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218. Organelle other than nucleus, containing

DNA is

A. endoplasmic reticulum

B. mitochondria

C. Golgi apparatus

D. lysosomes

Answer: B



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219. Find out the false statement

A. Golgi apparatus is involved with the formation of lysosomes

B. nucleus, mitochondria and plastid have DNA, hence they are able to make their own structural proteins

C. Mitochondria is said to be the power house of the cell as ATP is generated in them

D. cytoplasm is called as protoplasm

Answer: D



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220. Cell wall of which one of these is not made us of cellulose ?

A. bacteria

B. Hydrilla

C. mango tree

D. cactus

Answer: C



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221. A cell will swell up if

A. the concentration of water molecules in the cell is higher than the concentration of water molecules in surrounding medium

B. the concentration of water molecules in surrounding medium is higher than water molecules concentration in the cell

C. the concentration of water molecules is same in the cell and in the surrounding

medium

D. concentration of water molecules doesn't matter

Answer: B



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222. Plasmolysis in a plant cell is defined as

A. break down (lysis) of plasma membrane in hypotonic medium

B. shrinkage of cytoplasm in hypertonic medium

C. shrinkage of nucleoplasm

D. none of them

Answer: B



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223. Which of these is not related to endoplasmic reticulum ?

- A. it behaves as transport channel for proteins between nucleus and cytoplasm
- B. it transport materials between various regions in cytoplasm
- C. it can be the site of energy generation
- D. it can be the site for some biochemical activities of the cell

Answer: C



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224. Select the odd one out

A. the movement of water across a semipermeable membrane is affected by the amount of substances dissolved in it,

B. membranes are made of organic molecules such as proteins and lipids.

C. molecules soluble in organic solvents can easily pass through the membrane.

D. plasma membranes contain chitin sugar
in plants.

Answer: D



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225. Following are a few definitions of osmosis.

Read carefully and select the correct definition.

A. movement of water molecules from a region of higher concentration to a region of lower concentration through a semipermeable membrane.

B. movement of solvent molecules from its higher concentration to lower concentration.

C. movement of solvent molecules from higher concentration to lower

concentration of solution through permeable membrane.

D. movement of solute molecules from low concentration to higher concentration of solution through a semipermeable membrane.

Answer: A



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226. Who discovered cells, and how?



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227. Why is the cell called the structural and functional unit of life



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228. How do substances like carbon dioxide (CO_2) and water (H_2O) move in and out of

the cell?



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229. Why is the plasma membrane called a selectively permeable membrane



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230. DIFFERENCE BETWEEN PROKARYOTIC CELLS & EUKARYOTIC CELLS



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231. Can you name the two organelles we have studied that contain their own genetic material?



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232. If the organisation of a cell is destroyed due to some physical or chemical influence, what will happen?



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233. Why are lysosomes known as suicide bags?



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234. Where are proteins synthesised inside the cell?



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235. Make a comparison and write down ways in which plant cells are different from animal cells.



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236. How is a prokaryotic cell different from a eukaryotic cell?



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237. What would happen if the plasma membrane ruptures or breaks down?



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238. What would happen to the life of a cell if there was no Golgi apparatus



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239. Which organelle is known as the powerhouse of the cell? Why?



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240. Where do the lipids and proteins constituting the cell membrane get synthesised?



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241. How does an Amoeba obtain its food?



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242. What is osmosis?



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243. Carry out the following osmosis experiment: Take four peeled potato halves and scoos each one out to make potato cups.

One of these potato cups should be made from a boiled potato. Put each potato cup in a trough containing water. Now, (a) Keep cup A empty (b) Put one teaspoon sugar in cup B (c) Put one teaspoon salt in cup C (d) Put one teaspoon sugar in the boiled potato cup D. Keep these for two hours. Then observe the four potato cups and answer the following: (i) Explain why water gathers in the hollowed portion of B and C. (ii) Why is potato A necessary for this experiment? (iii) Explain why water does n



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244. Why are lysosome known as suicidal-bags of a cell?



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245. Do you agree that 'A cell is a building unit of an organism'. If yes, explain why?



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246. Why does the skin of your finger shrink when you wash clothes for a long time?



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247. Why is endocytosis found in animals only?



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248. A person takes concentrated solution of salt, after sometime, he starts vomiting. What

is the phenomenon responsible for such situation? Explain.



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249. Name any cell organelle which is non-membranes.



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250. We eat food composed of all the nutrients like carbohydrates, proteins, fats,

vitamins, minerals and water. After digestion, these are absorbed in the form of glucose, amino acids, fatty acids, glycerol, etc. what mechanisms are involved in absorption of digested food and water?



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251. If you are provided with some vegetables to cook. You generally add salt into the vegetables during cooking process. After

adding salt, vegetables release water. What mechanism is responsible for this?



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252. If cells of onion peel and RBC are separately kept in hypotonic solution, what among the following will take place? Explain the reason for your.

(a) Both the cells will swell.

(b) RBC will burst easily while cells of onion peel will resist the bursting to some extent.

(c) Both (a) and (b) are correct.

(d) RBC and onion peel cells will behave similarly.



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253. Bacteria do not have chloroplast, but some bacteria are photoautotrophic in nature and perform photosynthesis. Which part of bacterial cell performs this?



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254. Match the items of A and B

| A | B |
|--------------------------------------|---------------------|
| (a) Smooth endoplasmic reticulum | (i) <i>Amoeba</i> |
| (b) Lysosome | (ii) Nucleus |
| (c) Nucleoid | (iii) Bacteria |
| (d) Food vacuoles | (iv) Detoxification |
| (e) Chromatin material and nucleolus | (v) Suicidal bag |



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255. Write the name of different plants parts in which chromoplast, chloroplast and Leucoplast are present.



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256. Name the organelles which show the analogy written as under

(i) Transporting channels of the cell

(b) Power house of the cell

(c) Packaging and dispatching unit of the cell

(d) Digestive bag of the cell

(e) Storages sacs of the cell

(f) Kitchen of the cell

(g) Control room of the cell



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257. How is bacterial cell different from onion pell?



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258. How do substances like CO₂ and water move in and out of the cell? Discuss



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259. How does an Amoeba obtain its food?



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260. Name the two organelles in a plant cell that contain their own genetic material and ribosome.



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261. Why are lysosomes also known as scavengers of the cells?



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262. Which cell organelle controls most of the activities of the cell?



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263. Which kind of plastid is more common in
(a) roots of the plant (b) leaves of the plant (c)
flowers and fruits



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264. Why do plant cells possess large sized vacuole?



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265. How are chromatin, chromatid and chromosomes related to each other?



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266. What are the consequences of the following conditions?

(a) A cell containing higher water concentration than the surrounding medium

(b) A cell having low water concentration than the surrounding medium.

(c) A cell having equal water concentration to its surrounding medium.



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267. Illustrate only a plant cell as seen under electron microscope. How its different from animal cell?



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268. Draw a neat labelled diagram of an animal cell.



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269. Draw a well labelled diagram of an eukaryotic nucleus. How is it different from nucleoid?



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270. Differentiate between rough and smooth endoplasmic reticulum. How is endoplasmic reticulum important for membrane biogenesis?



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271. In brief state what happens when

(a) Dry apricots are left for sometime in pure water and later transferred to sugar solution?

(b) A red blood cell is kept in concentrated

saline solution?

(c) The plasma-membrane of a cell breaks down?

(d) When Rheo leaves are boiled in water first and then a drop of sugar syrup is put on it, osmosis does not occur, due to the death of the cells of the leaf. This shows that selective permeability is a property of living plasma membrane.

(e) Golgi complex helps in the packaging, storage and transfer of proteins synthesised by ribosomes. Thus, when ribosomes are removed the cell will not function properly.



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272. Draw a neat diagram of plant cell and label any three parts which differentiate it from animal cell.



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273. What happens to an animal cell when it is placed in a very dilute external medium? Why?



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274. (a) Draw a plant cell and name seven important organelles found in it.

(b) Name one organelle that can make some of its protein in a plant cell and also mention one function of such organelle.



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275. (a) Name and draw a cell which does not have a well defined unclear region. Label any four parts.

(b) mention two ways by which a photosynthesing cell belonging to this group differs from a cell of your body.



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276. What is functional unit of life ?



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277. What is the difference between plasma membrane and cell wall ? Give the functions of

each one.



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278. Main cellular site of ATP generation is.....



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279. Which cellular organelle uses molecular oxygen like mitochondria but protects the cell from toxic metabolic by products ?



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280. Differentiate between chromatin and chromosome.



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281. Differentiate between chromatin and chromosome.



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282. Which molecules are present in chromatin.



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283. Which types of ribosomes are found in prokaryotes and eukaryotes?



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284. Which structure is called little nucleus?



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285. Why is nucleus called director of the cell ?



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286. Cell inclusions are

(a) non-living materials present in the cytoplasm

(b) another name of cell organelles

(c) cytoskeletal framework of cell

(d) combined name for cell wall and plasma
mambran



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287. Which of these is wrongly matched ?

(a) chloroplasts - chlorophyll

(b) elaisplasts - starch

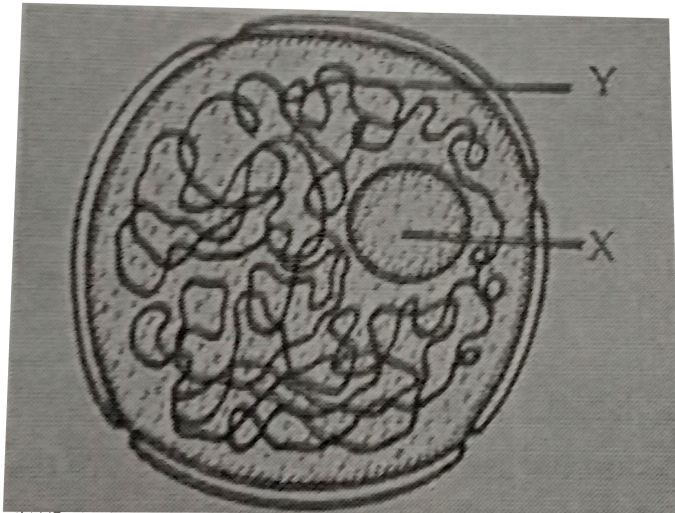
(c) amyloplasts-carbohydrates



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288. What will happen if chloroplast is taken out of the cell and illuminated ?

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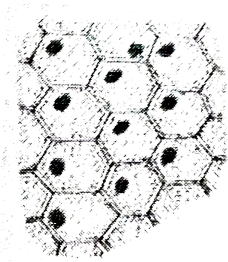


289.

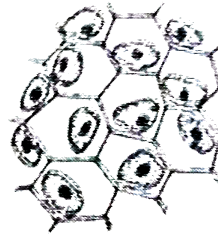
(a) Identify the above figure

(b) Lable X and Z Itbrlt (c) What is the function of X ?

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A cells



B cells

290.

(a) Identify A- and B-cells.

(b) What will happen if B-cells are kept in hypertonic solution ?

(c) What will happen if A cells are kept in hypertonic solution ?



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291. What will heppen if

(a) Excess amount of fertilizer is added to a green lawn ?

(b) Salt is added to cut pieces of raw mango.



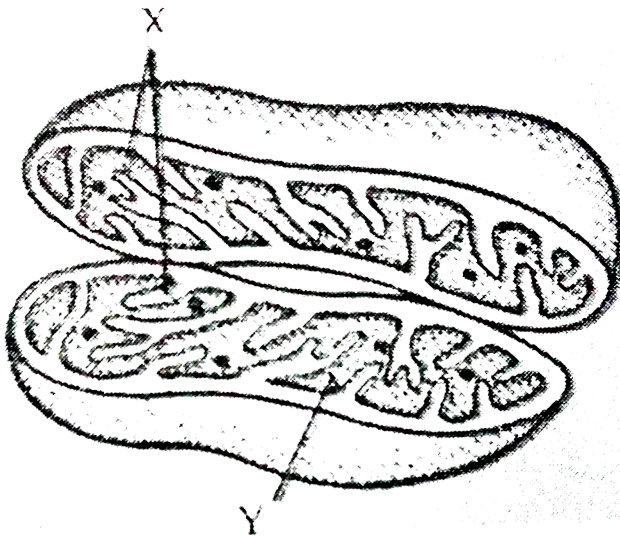
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292. (a) Label X and Y.

(b) What is the function of X ?

(c) What is the composition of Y ?

(d) Identify the above diagram and what is its common name ?



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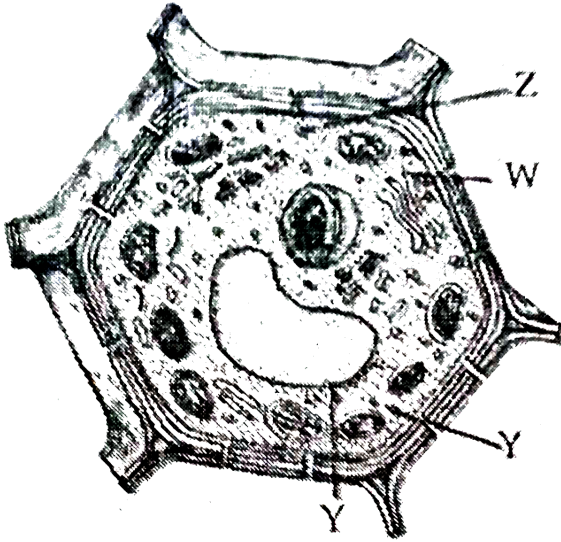
293. (a) Label W, X, Y, and Z.

(b) What is the covering membrane of X known as ?

(c) Which of them contain hydrolytic enzymes ?

(d) Which one of them takes part in storage modification and packaging of various

chemicals?



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294. (a) Name the phenomenon which helps fresh water unicellular organisms (e.g., Amoeba) continuously gain water in their

bodies. Also name the mechanisms by which these organisms throw out excess of water from their bodies.

(b) Give at least two examples in plants where similar phenomenon is used to gain water.



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295. WHAT IS A CELL?



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296. What is prokaryotic cell ?



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297. Define the following terms: cell
prokaryotic cell, eukaryotic cell, organelle.



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298. The term cell was coined by and the cell
was first seen by



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299. Name the book in which Robert Hooke published his work.



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300. Name the scientist who first studied living cell?



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301. Name two factors on which shape of the cell depends.



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302. Name the smallest and the largest cell.



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303. Name the longest cell in the human body.



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304. How many cells are present in human body ?



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305. Name the structure from which all multicellular organisms develop.



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306. Give two examples of prokaryotic cell.



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307. Give one example each of unicellular and multicellular organism.



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308. Who proposed the "Cell theory"



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309. What is light microscope ?



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310. What is electron microscope ?



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311. Is plasma membrane living or dead ?



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312. What is plasma membrane ?



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313. Define the cell.



Watch Video Solution

314. What is protoplasm ?



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315. Name the biomolecules present in plasma membrane.



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316. Why is the plasma membrane called a selectively permeable membrane



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317. What type of organization is found in the plasma membrane ?



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318. DIFFUSION



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319. What is osmosis?



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320. What would happen if the plasma membrane ruptures or breaks down?



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321. What is the main function of plasma membrane ?



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322. What is endosmosis ?



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323. What is exosmosis ?



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324. Define, (i) Hypertonic solution, (ii) Hypotonci solution, (iii) Isotonic solution.



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325. What is endocytosis ?



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326. What is exocytosis ?



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327. ACTIVE TRANSPORT



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328. ACTIVE TRANSPORT



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329. Is the plant cell wall living or dead?



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330. Can you name the two organelles we have studied that contain their own genetic

material?



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331. Name the following :



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332. Main component of the cell wall of fungi

is



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333. What is the main function of each of the following organelles ?

(a) Ribosome, (b) Cell wall



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334. Name the cell organelle in which following structures are present :

(a) Cristae, (b) Stroma,
(c) Centriole, (d) Chromosome,



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335. What is the main function of each of the following organelles" (a) Golgi bodies, (b) Vacuole.



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336. What cell organelle is responsible for release of energy at ATP ?



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337. What of ATP stand ?



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338. Name the nucleic acids that are present in an animal cell.



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339. Do the plant cells contain centriole ?



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340. Write two differences between plant cell and animal cell.



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341. DIFFERENCE BETWEEN PROKARYOTIC CELLS & EUKARYOTIC CELLS



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342. Write down difference between organ an organelle.



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343. Write down differences between nucleus and nucleoid.



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344. Mention differences between light microscope and electron microscope.



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345. Give a brief account of discovery of the cell.



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346. Describe the proteins of plasma membrane.



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347. Describe structure and functions of plasma membrane.



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348. Give an example of diffusion across plasma membrane.



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349. Write down the differences between diffusion and osmosis.



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350. Write a note on endocytosis.



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351. What would happen when eukaryotic cells are placed in hypotonic, hypertonic and isotonic solutions?



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352. Name the following :

(a) Smallest cell organelle

(b) Largest cell organelle,

(c) ER studded with ribosomes

(d) Functional segments of the DNA molecule.



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353. Distinguish between the following

(a) Chromoplast and chloroplast

(b) Ribosome and centrosome.



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354. Write main differences between plant and animal cells.



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355. What will happen in a cell if its nucleus removed? Give reasons in support of your answer.



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356. Explain why do spinach look green papaya yellow and edible part of water melon red ?



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357. Write down two main functions of

- (a) Endoplasmic reticulum
- (b) Lysosome.



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358. Name the following

(a) The cell organelle which synthesizes protein.

(b) The type of plastid which stores food.



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359. Why are lysosomes known as suicide bags?



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360. Define the following terms :

- (a) Cell inclusions (b) Cytosol
(c) Protoplasm (d) Nucleoplasm.



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361. Where do the ribosomes get synthesized ?



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362. Write short notes on

- (a) Mitochondria, (b) Plastids.





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363. Write names of cell organelles.



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364. What are three main functional regions of the cell ?



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365. What is the location of following in the cell,

- (a) Chromatin (b) Chromosome
(c) Tonoplast (d) Nucleolus



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366. What are the genes ? Where are they located in the cell ?



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367. Lysosomes are also called digestive bags.

Why?



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368. Which organelle is the " power plant" of eukaryotic cell. Write in brief its functions.



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369. What are centrioles? Write about their function.



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370. Where do the lipids and proteins constituting the cell membrane get synthesised?



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371. Draw a well labelled diagram of typical prokaryotic cell ?



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372. What does the term plasmolysed mean when used to describe a cell ?



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373. Describe with a diagram the fluid mosaic organisation of the plasma membrane.



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374. Draw a neat labelled diagram of an animal cell.



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375. Give an illustrated account of nucleus.



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376. Write short note on the following :

(a) Golgi apparatus (b) Mitochondria



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377. How does it cell shwo division of labour ?

Is there any parallelism between working of the cell and ore society ?



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378. Khushi wanted to eat rice and kidney bean (rajmah). She requested her mother to cook the same for lunch tomorrow. At night her mother took a cup of kidney bean and put them in a container leaving some water. She kept the container covered overnight. Next morning, she cooked rice and kidney beans for lunch. Khushi inquired her mother the following questions:

(i) Why did she soak kidney beans in water

(ii) Name the scientific phenomenon involved

in above process.

(iii) Name atleast one more food item that is cooked in this way.



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379. One day Muskan saw her mother making pickle. Her mother cut of the carrots, turnips and cauliflowers into small pices, wahed them and put them in the sun for few hours. Therefore, she mixed common salt oil, paste of onion , ginger and garlic, gur, res chili,

turmeric powder acetic acid, etc., as per requirement with the cut vegetables and heated them. After cooling she put the contents in the air tight jar and kept it in the sun for many days.

(i) Why did Muskan mother cut the vegetables into small pieces and put them in the sun for few hours ?

(ii) Why did she mix common salt in the cut vegetables and heated it ? Name the process involved.

(iii) Why did she mix acetic acid ?



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380. What is the basis of long life of pickles and jams ? What lesson one gets from this fact ?



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381. Arvind sometimes go for late evening walk with his father who has a background of biology. While walking in the colony park, he observed many plants having colour flowers.

He also saw few plants having white flowers.

Most of these flowers emit pleasant fragrance

(=aroma). out of curiosity, Arvind asked his

further the following questions:

(i) Why do plants have variously coloured flowers ? Give two reasons.

(ii) Why do certain flowers emit fragrance ?

How does fragrance of flowers spread in the environment ?

(iii) Which scientific phenomenon is involved

when (a) fragrance spreads in the house at the

time of cooking of food in the kitchen, (b)

exchange of gases occurs across the respiratory surface.



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382. What are the functions of plasma membrane? How is the plasma membrane able to perform diverse functions. Give an example of diversity in functioning in any segment of human society.



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383. (i) A fruit is green when unripe but become beautifully coloured when ripe. How does this change occur ?

(ii) What is the importance of this change ?

(iii) What is mutualism involved ?

(iv) Give an example of such a mutualism in human society.



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**Questions Based On Ncert Question Bank
Exemplar Problems In Science**

1. Draw a plant cell and label the parts which

(a) Determine function and development of the cell.

(b) Provides resistance to microbes and to withstand hypotonic external medium without injury.

(c) Packages materials coming from the endoplasmic reticulum.

(d) Is a fluid contained inside the nucleus.

(e) Is site for many biochemical reactions necessary to sustain life.



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