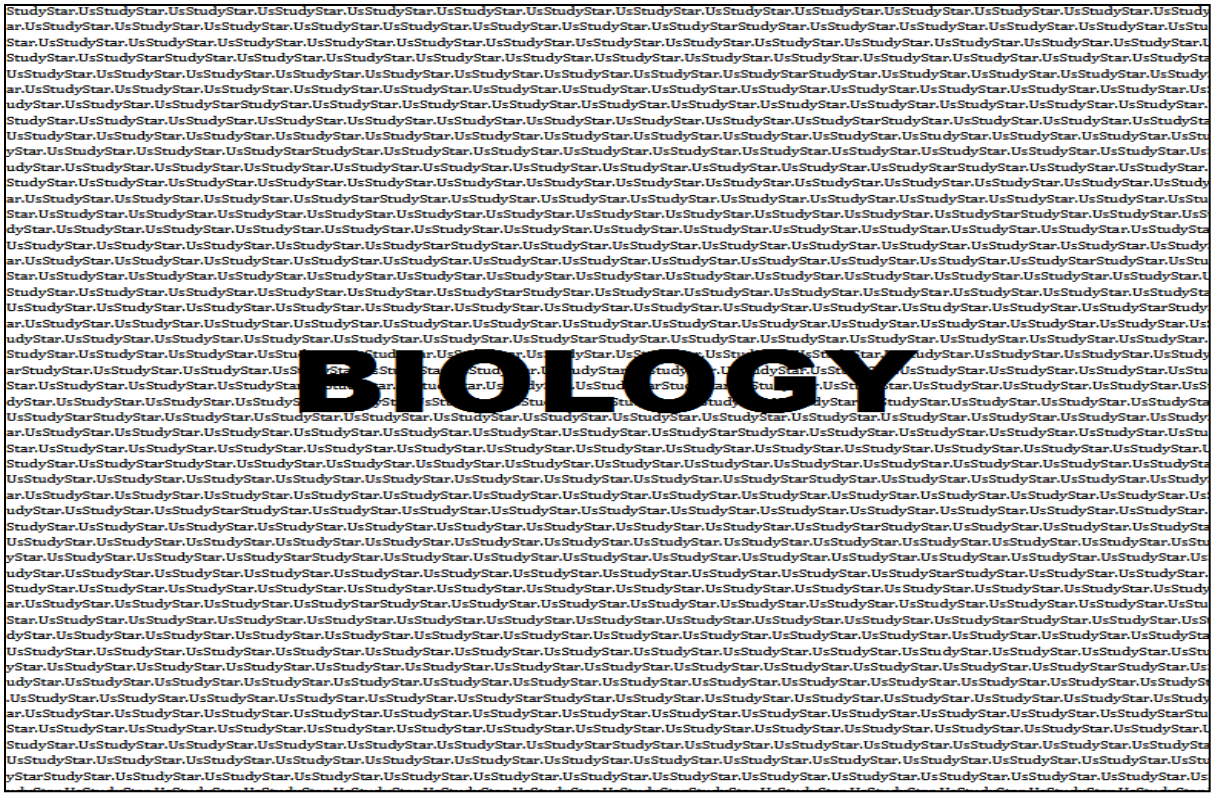


THE CELL

Total Marks: 25

Duration: 0 hours, 20 minutes

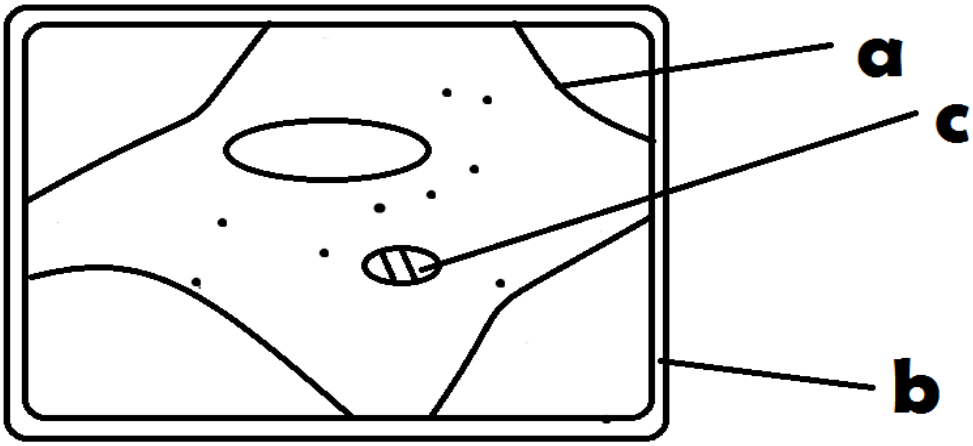
Instructions to test takers

1. Answer all the questions in this paper
2. All the answers for the questions in this paper will be found on **Study Star** (www.studystar.me)
3. Using the answers on the website, mark yourself truthfully and carefully.

Turn this page, time yourself and begin the test

Section A [10 marks]

1. Which of the following is a function of the cell wall?
    a. To give shape and support to the cell
    b. To allow chemical processes to occur
    c. To store cell sap
2. A tissue is said to be a group of similar cells performing similar functions. Which of the following is an example of a plant tissue?
    a. Guard tissue
    b. Ciliated tissue
    c. Muscle tissue
3. Which of the following best describes a hypertonic solution?
    a. A solution which is more concentrated than the other
    b. A solution which is less concentrated than the other
    c. Solutions with equal concentrations
4. Study the diagram below

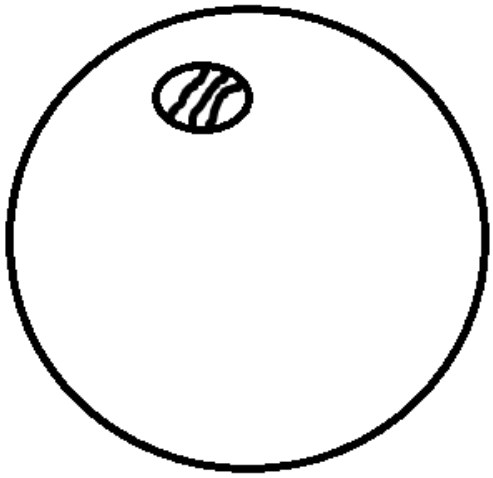


What do we call a cell in this state?
    a. Turgidity
    b. Crenation
    c. Plasmolysis

5. State the name of the part labelled B in question 4 above.
    a. Cell wall
    b. Cell membrane
    c. Cytoplasm
6. Why did structure B in question 4 above remain in its natural state?

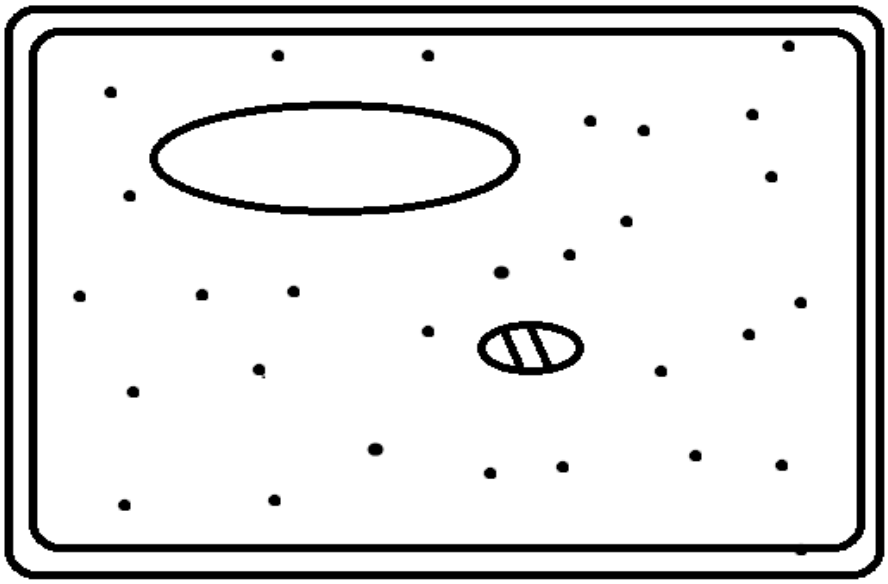
a. Because it is elastic
b. Because it is made up of dead cells
c. Because it is strong

7. What can be done to reverse the process in question 4 above?
    a. Place it in a hypertonic solution
    b. Place it in a hypotonic solution
    c. Place it in a isotonic solution
8. Phagocytes and lymphocytes are both parts of
    a. The guard tissue
    b. The nerve tissue
    c. The blood tissue
9. Study the diagram below



    a. Animal cell
    b. Guard cell
    c. Plant cell

10. Study the diagram below



What cell is above?

a. Guard cell
b. Palisade cell
c. Root hair cell

Section B [5 marks]

11. What part of cell produces energy?
12. Organisms that are made up of only one cell are called _____
13. A substance that dissolves in a solvent is called _____
14. The movement of water particles from a region of high concentration to a region of low concentration across a selectively permeable membrane is called _____
15. The process by which a animal cell loses water by osmosis is called _____

Section C [10 marks]

16. State three differences between a plant and animal cell [3]
17. Name the structure in an animal cell that stores genetic information [1]
18. Name the process by which an animal cell and a plant cell loses water by osmosis [2]
19. State three ways in which the root hair cell is adapted to carry out its functions [3]
20. State any difference between osmosis and diffusion [1]

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