bananalearn

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Cells and their parts for Class 8

Practice worksheet - Science · Grade 8

Name: _____ Date: _____

Show your working. Answers and explanations follow on a separate page.

Try each task before opening its answer. Give an example or reason, not only a label.

Write an answer and your reason before opening the explanation. Check the reasoning as well as the final answer.

1. What is the basic structural and functional unit of life?

2. Which structure controls exchange at the cell boundary?

3. Name the material where many cell activities occur outside the nucleus.

4. Give one important role of the nucleus.

5. Where is the plant cell wall relative to the membrane?

6. Must a root cell contain chloroplasts?

7. Which structure is involved in photosynthesis?

8. What is typical of a mature plant cell vacuole?

Practice continued

9. Name two shared features of typical plant and animal cells.

10. Arrange: organ, cell, tissue.

11. Why can a nerve cell have long extensions?

12. Does not visible on a slide mean definitely absent?

13. Do all cells have a membrane-bound nucleus?

14. Why should a cell diagram have a title?

Answers and explanations

Answer key - Science · Grade 8

Cells and their parts for Class 8

1. The cell.

Cells carry out living functions.

2. Cell membrane.

It is not simply an impermeable seal.

3. Cytoplasm.

Use the common school-level description.

4. It contains genetic material and helps direct cell activities.

Most typical plant and animal diagrams include it.

5. Outside it.

They are separate structures.

6. No.

Plant cells vary by job and location.

7. Chloroplast.

It contains chlorophyll.

8. A large central vacuole containing cell sap.

This is a typical pattern, not every possible cell.

9. For example, membrane and cytoplasm.

The comparison includes similarities.

10. Cell → tissue → organ.

Each level builds on the earlier one.

11. They help transmit information over distances.

Shape relates to function.

12. No.

Observation conditions matter.

13. No.

Bacteria are an important exception.

14. It identifies the cell type and model.

Readers can interpret the intended structures.