

Name: _____ Date: _____

Cell Structure and Functions

Q1. What is nuclear membrane? State its function.

Ans. _____

Q2. What are the different shapes of cells?

Ans. _____

Q3. Are the cells in an elephant larger than the cells in a rat?

Ans. _____

Q4. Explain why chloroplasts are found only in plant cells?

Ans. _____

Q5. What is the difference between amoeba and white blood cell?

Ans. _____

Cell Structure and Functions

Q1. What is nuclear membrane? State its function.

Ans. Nucleus is separated from the cytoplasm by a membrane called the nuclear membrane. This membrane is also porous and allows the movement of materials between the cytoplasm and the inside of the nucleus.

Q2. What are the different shapes of cells?

Ans. Generally, cells are round, spherical or elongated. Some cells are long and pointed at both ends. They exhibit spindle shape. Cells sometimes are quite long. Some are branched like the nerve cell or a neuron.

Q3. Are the cells in an elephant larger than the cells in a rat?

Ans. The size of the cells has no relation with the size of the body of the animal or plant. It is not necessary that the cells in the elephant be much bigger than those in a rat. The size of the cell is related to its function.

Q4. Explain why chloroplasts are found only in plant cells?

Ans. Green coloured plastids are called chloroplasts. They provide green colour to the leaves. Chlorophyll in the chloroplasts of leaves is essential for photosynthesis. As only plants can perform photosynthesis, so chloroplasts are found only in plant cells.

Q5. What is the difference between amoeba and white blood cell?

Ans. The difference between amoeba and white blood cell is that while amoeba cell is a full-fledged organism capable of independent existence, white blood cell is merely a cell of human blood which is not a full-fledged organism and hence cannot exist independently.