BIOLOGY

BOOKS - ICSE

TISSUES: PLANT AND ANIMAL TISSUES

Progress Check

1. What are the two basic types of plant tissues?

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2. Give the technical terms for the

The category of plant tissues that have lost their ability to multiply

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3. Give the technical terms for the

The kind of plant cells with thin walls and usually a single large vacuole

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4. Give the technical terms for the

Elongated cells which are thickened at the corners.

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5. Give the technical terms for the

The basic type of tissue which provide the upward movement of water and dissolved materials from the roots to other parts of the plant.

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6. Mention if the statement is true (T) or false (F)

Phloem cells carry manufactured food from leaves to other parts.

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7. Mention if the statement is true (T) or false (F)

Veins of leaves have both xylem and phloem.

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8. Mention if the statement is true (T) or false (F)

The older xylem tissue does not participate in transport

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9. Mention if the statement is true (T) or false (F)

The sclerenchyma consists of actively dividing cells.

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10. Name the kind of animal tissue in which Cells are flat, cuboidal or columnar, forming protective layer.

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11. Name the kind of animal tissue in which Cells produce and pour out chemical substances.

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12. Name the kind of animal tissue in which Cells can contract and relax.

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13. Name the kind of animal tissue in which

Cells can conduct impulses.

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14. Give one example of each of the following

tissues where they are located

Ciliated columnar epithelium

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15. Give one example of each of the following tissues where they are located

Elastic cartilage

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16. Give one example of each of the following tissues where they are located

Unstriated muscles

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17. Cartilage is

Watch Video Solution

18. Explain the fine structure of a striated muscle.

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19. Write one speciality of

Bone

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20. Cardiac muscle is:

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21. Mention if the statement is true (T) or false (F)

Axons of nerve cells are very long.

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22. Mention if the statement is true (T) or false (F)

Dendrons bundled together form a nerve.

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23. Mention if the statement is true (T) or false (F)

Cardiac muscles get tired soon.

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24. Mention if the statement is true (T) or false (F)

Epithelial cells leave space in between

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25. Mention if the statement is true (T) or false (F)

Perikaryon is the nucleus of a nerve cell.

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26. Mention if the statement is true (T) or false (F)

Muscles of the iris of the eye are of voluntary type

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27. Mention if the statement is true (T) or false (F)

Cartilage has no blood vessels or the nerves in it.

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Review Questions A Multiple Choice Type

1. In potato, starch is stored in :

A. Sclerenchyma

B. Collenchyma

C. Parenchyma

D. Chlorenchyma

Answer:

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2. Tendons and ligaments are specialized type of

A. Fibrous connective tissue

B. Cartilage

C. Muscular tissue

D. Adipose tissue.

Answer:

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3. Which one of the following pairs is correctly matched?

A. Meristem - Actively dividing cells

B. Xylem – Transport of food

C. Phloem Transport of water

D. Sclerenchyma - Storage of starch.

Answer:

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4. Parenchyma containing chloroplasts is known as:

A. Parenchyma

B. Aerenchyma

C. Collenchyma

D. Chlorenchyma

Answer:

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5. Annual rings are the number of:

A. Internodes in a stem

B. Rings of vascular bundles in a monocot stem.

C. Barks layers in a woody stem.

D. Layers of Xylem in a stem.

Answer:

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6. Which of these cells in a plant is apt to be nonliving ?

A. Meristem

B. Parenchyma

C. Collenchyma

D. Sclerenchyma

Answer:

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7. Which of the following connects a bone to a bone?

A. Cartilage

B. Ligament

C. Tendon

D. Interstitial fluid.

Answer:

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8. Cardiac muscle is:

A. Involuntary

B. smoothed

C. striated

D. involuntary and striated

Answer:

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Review Questions B Very Short Answer Type

1. Name the kind of tissue found at the tip of plant roots.

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2. Name the kind of tissue found at the lower surface of leaf.

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3. Name the particular kind of tissue which lines the inner surfaces of fallopian tubes and the bronchioles.

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4. Name the kind of tissue found at the joint between two long bones.

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5. Name the kind of tissue found in the walls of the veins of leaves.

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6. Name the kind of tissue found as gritty masses in the skin of pears.

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7. Where is the least specialized tissue located in plants?

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8. Give one word for

A group of similar cells performing a specific function.

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9. Give one word for

Cells least specialized in the plants.

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10. Give one word for

Cells responsible for increase in diameter of the stem and root of dicot plants.

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11. Name one place each in living organisms where the tissue is located :

Meristematic tissue

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12. Name one place each in living organisms where the tissue is located :

Cartilage

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13. Name one place each in living organisms where the tissue is located :

Squamous epithelium.

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14. Name one place each in living organisms where the tissue is located :

Sclerenchyma

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15. Give one example of each of the following tissues where they are located

Ciliated columnar epithelium

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16. Name one place each in living organisms where the tissue is located :

Ligament

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17. Name the kinds of cells found in the place surface of the human skin

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18. Name the kinds of cells found in the place Salivary gland

 Watch Video Solution

19. Name the kinds of cells found in the place

Brain

Watch Video Solution

20. Name the kinds of cells found in the place

Inner lining of the wind pipe

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Review Questions C Short Answer Type

1. Name any one body part where ciliated epithelium is found in humans ? What is its function ?

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2. What is the difference between the nervous tissue and the nervous system ?

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3. List the tissues found in the human heart?

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4. Can you consider a cluster of eggs as a tissue? Why?

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5. Name the three kinds of muscles found in the human body. In each case, name one

region in the body where they are found.

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Review Questions D Long Answer Type

1. What is the difference between

cell and tissue ?

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2. What is the difference between

organ and organism ?

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3. Differentiate between

an organ and an organelle

 Watch Video Solution

4. What is the difference between organ and organ system ?

Watch Video Solution

5. Differentiate between Parenchyma and collenchyma

Watch Video Solution

6. Differentiate between cells of Meristematic tissue and permanent tissue

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7. Differentiate between Parenchyma and sclerenchyma

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8. Differentiate between Voluntary muscles and involuntary muscles

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9. Differentiate between cells of Fibres of voluntary muscle and cardiac muscle.

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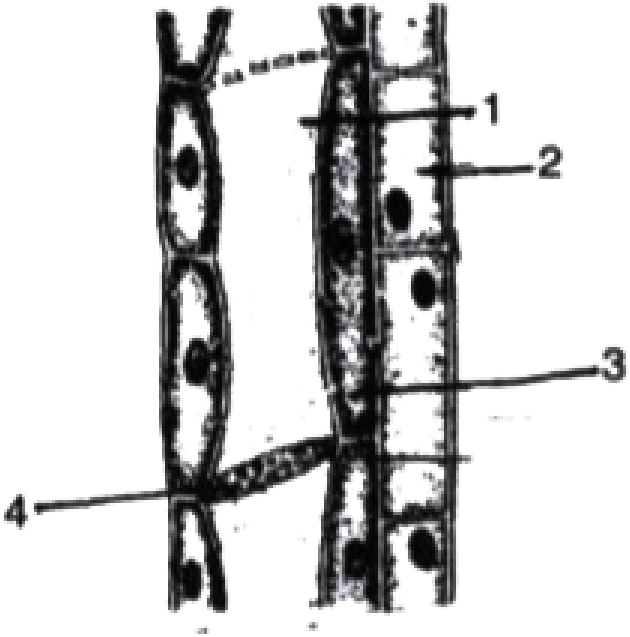
Review Questions E Structured Application Questions

1. Study the diagram given below and then answer the question that follow :



Name the parts labelled 1,2,3 and 4.

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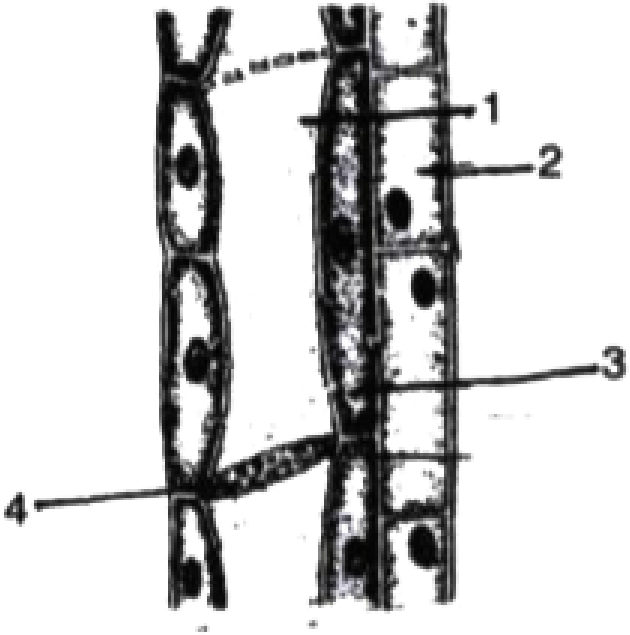
2. Study the diagram given below and then answer the question that follow :



Name the parts labelled 1,2,3 and 4.

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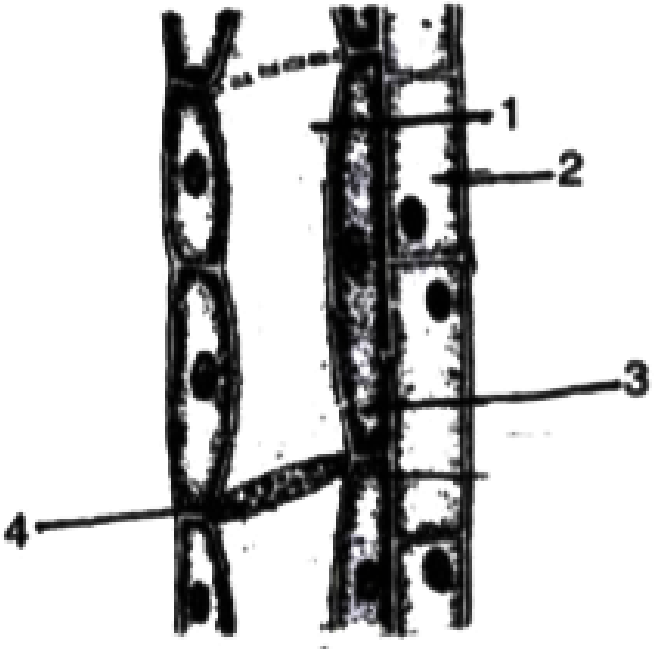
3. Study the diagram given below and then answer the question that follow :



Where is this tissue likely to be found in the plant?

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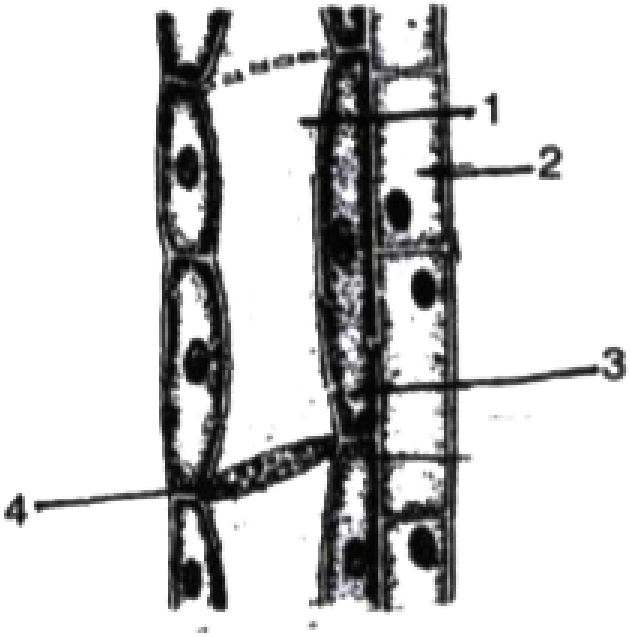
4. Study the diagram given below and then answer the question that follow :



Name the parts labelled 1,2,3 and 4.

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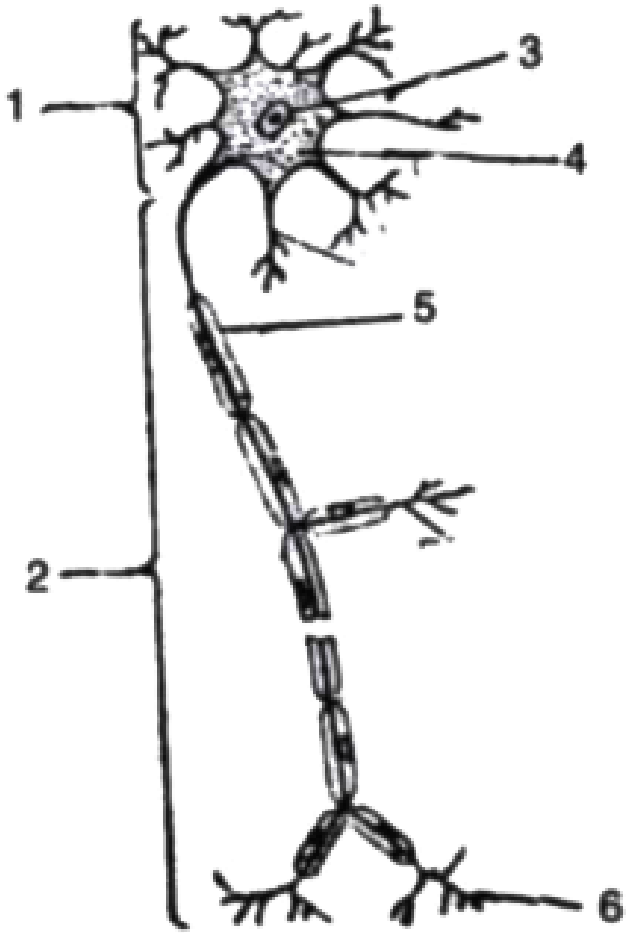
5. Study the diagram given below and then answer the question that follow :



Identify the cell.

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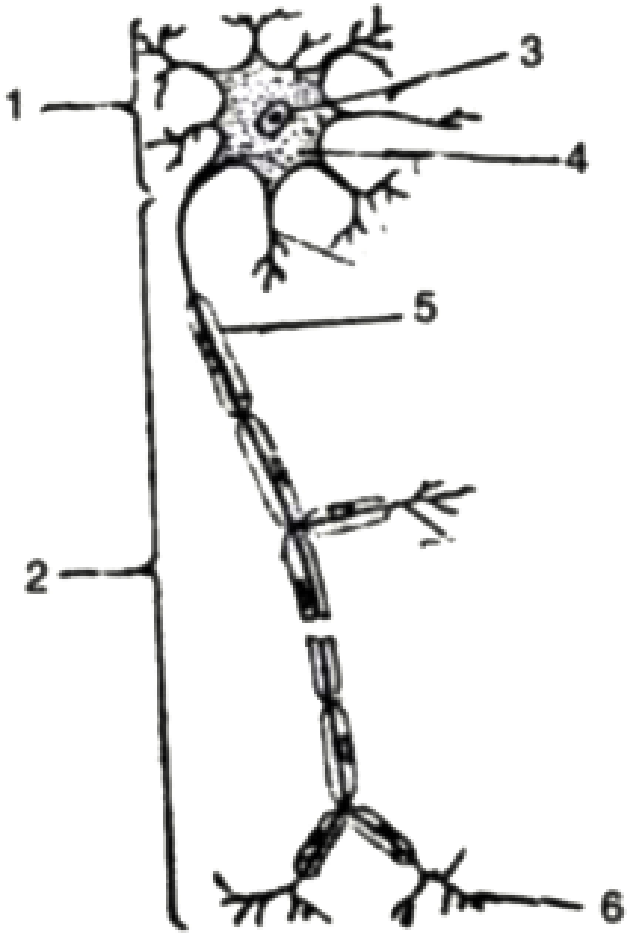
6. Study the diagram given below and then answer the question that follow :



Name the parts labelled 1, 2, 3, 4, 5, and 6.

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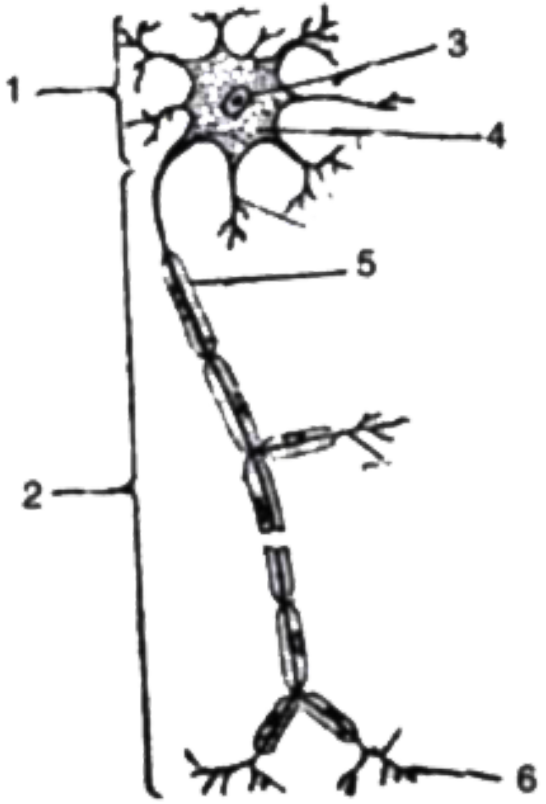
7. Study the diagram given below and then answer the question that follow :



Where is this cell likely to be found in the human body and what is its function ?

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