

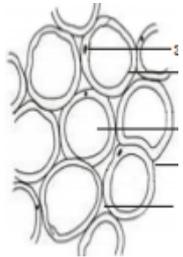


Grade 11

Science

Unit : 01 - Living Tissues

MCQ Questions

- (1) Identify the diagram given,
1) Cross section of parenchyma.
2) Cross section of collenchyma.
3) Cross section of sclerenchyma.
4) Longitudinal section of collenchym.
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- (2) Which of the tissue that transport water in the plant body?
1) Xylem 2) Cambium 3) Phloem 4) Pith
- (3) Which of the following are unbranched among the three types of muscles found in the human body?
1) Skeletal muscle and smooth muscles only.
2) Smooth muscle and heart muscles only.
3) Skeletal muscle and heart muscles only.
4) Heart muscles, Smooth muscles and skeletal muscles.
- (4) The urinary bladder muscles is made of,
1) Skeletal muscles 2) Smooth muscles
3) Straited muscles 4) Branched muscles
- (5) In which of the following are paranchyma tissue mostly present?
1) coconut fibers 2) cotton wool
3) veins of dicot leaves 4) fleshy parts of fruits
- (6) Which of the following incorrectly states about the characteristics of sclerenchyma tissue?
1) Consists of dead cells.
2) Lignin is deposited on the cell wall.
3) Cells are tightly packed.
4) Intercellular spaces are present.
- (7) Which of the common feature for both xylem and phloem?
1) Presence of parenchyma tissue.
2) Presence of non - living tissues.
3) Both tissues produce food in the leaves.
4) Both tissues cannot provide mechanical support to plant body.

- (8) The animal tissue given in the diagram is,
 1) a muscle tissue
 2) an epithelial tissue
 3) a nervous tissue
 4) a connective tissue



- (9) Which option directly indicates the main functions of epithelial tissue and nervous tissue.

	Epithelial tissue	Nervous tissue
1)	Contraction and relaxation	Transportation of materials
2)	Co – ordination	Transportation of materials
3)	Lining up of free surfaces – and protection	Co – ordination
4)	Transportation of materials	Co – ordination

- (10) Consider the following features.

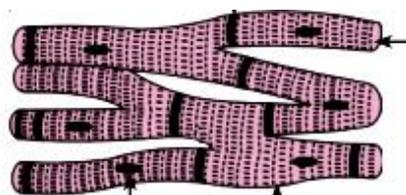
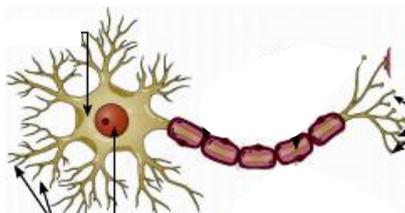
- x – Provide support and connection between tissues.
- y – Cells and fibers are embedded in a large matrix.
- z – Lines up the free surfaces of the vertebrate body.

Of the following features, the features of connective tissue are,

- 1) Only x and y 2) Only y and z 3) Only x and z 4) x, y and z

Structured Essay Questions

- (1) i) Given below are diagrams of the microscope views of two specimens taken from an Identify and name them.



A)

B)

- ii) There are special tissues to transport substances in an animal. Name a tissue that transport materials in vertebrate body.

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iii) State 2 other functions performed by the tissue, mentioned in question no (ii).

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iv) State two structural different between smooth muscle fiber and skeletal muscle fiber.

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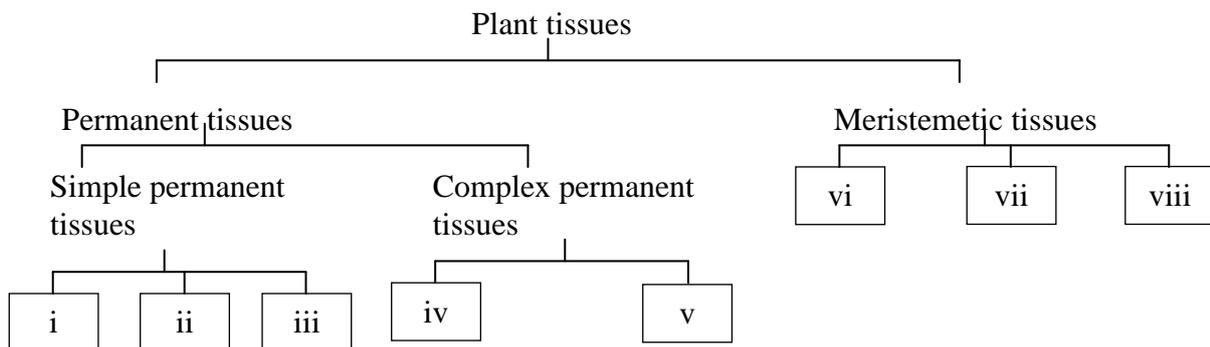
v) State a characteristic which you used to identify tissue (B).

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vi) Write 3 functions of epithelial tissue.

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(2) The classification of plant tissue is shown in the following chart.



i) Name from number i) to number viii).

ii) Mention 3 characteristics of meristematic tissue.

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iii) Write 3 locations of sclerenchyma tissue in plant body.

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iv) State 2 functions of xylem.

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v) Mention a difference between simple permanent tissues and complex permanent tissues.

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vi) State a structural features that helps to differentiate the ii) and iii) in the above flow chart.

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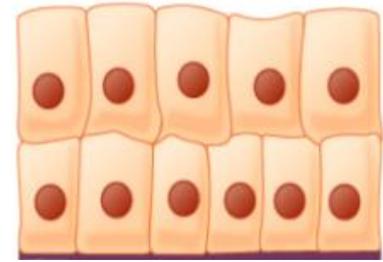
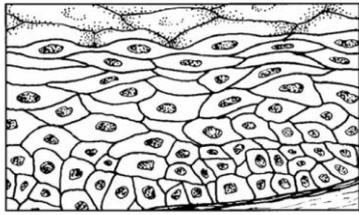
Essay Questions

- (1) i) Write 04 steps should be followed when getting a thin section of a plant leaf to observe through a light microscope.
- ii) Write down one function performed by each of the tissue.
- a) Phloem
 - b) Xylem
 - c) Parenchyma
- iii) Explain what is meant by a "tissue"
- iv) State 3 locations of collenchyma tissue in plant body.
- v)



- a) Identify and name the tissue given above.
- b) Write 04 different types of cells in the above tissue.
- c) State the main function of companion cells in the phloem tissue.

(2) i) Name the animal tissues given below in diagrams.



ii) Write down one function performed by each of the tissue.

- a) muscle tissue
- b) nervous tissue
- c) epithelial tissue

iii) Name another type of animal tissue, in addition to the tissues stated above.

iv) Smooth muscles are found in the human body, state 3 places smooth muscles found.

v) What common feature could be seen in a tissue when various plant and animal tissues are observed.

(3) A) The white blood cells, leucocytes are divided in to 2 categories depending on the availability of granules in cytoplasm.

i) Name the leucocytes with granules and without granules.

ii) Write the function of each of the following blood corpuscles.

- a) Erythrocytes →
- b) Leucocytes →
- c) Platelets →

B) Muscle tissues can be divided as striated muscles, unstriated muscles and cardiac muscle.

i) Write two special features of a striated muscle.

ii) Why do striated muscles are known as voluntary muscles?

iii) Mention the places where these muscles are present in our body.

Striated muscles	Unstriated muscles