

9th Monday test meristem

Q 1) Match the column-I with column-II and select the correct option. (1)

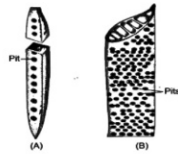
Column-I.**Column-II**

- | | |
|----------------|-------------------|
| (i) Tracheids. | (A) Transpiration |
| (ii) Phloem. | (B) Pits |
| (iii) Stomata. | (C) Sieve plates |
| (iv) Epidermis | (D) Cutin |

- | | |
|---|--|
| (a) (i) – (A); (ii) – (B); (iii) – (C); (iv) – (D). | (b) (i) – (B); (ii) – (C); (iii) – (A); (iv) – (D) |
| (c) (i) – (C); (ii) – (B); (iii) – (D); (iv) – (A). | (d) (i) – (D); (ii) – (C); (iii) – (B); (iv) – (A) |

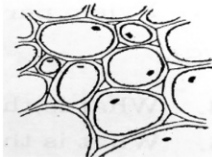
Q. 2) what is the role of following --- 1) Cutin. (2)
Lignin. (2)

Q.3-What do you think will happen if there were no stomata in the epidermis of the stem or leaves? (2)



Q.4) i) identify the tissue A and B shown in the diagram. (3)

- ii) Infer one characteristic feature of A and B.
iii) what is the role of A and B in plant body.



Q.5- A plant tissue is observed under a microscope as shown in the figure:- (3)

- 1) identify the tissue 2) state one characteristic feature of these cell
3) Name the part of plant where such cells are present

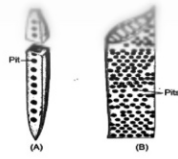
Q.6-Case based questions :- (4)

Amrita was observing different parts of plants in her school garden. She noticed that a fresh twig could bend, but a dry twig broke easily. She also saw that aquatic plants were floating on water, while seeds like coconut and walnut had very hard coverings. Curious, she asked her teacher why plants need different types of supporting tissues and how these tissues help in various functions.

- (i) Which tissue allows a fresh stem or tendril to bend without breaking?
(ii) Which supporting tissue has thick, lignified walls and is usually dead at maturity?
(iii) Aquatic plants can float on water because of _____
(iv) Which tissue mainly stores food and can perform photosynthesis in green parts of the plant?

Q. 7-Observe the given figures and answer the following

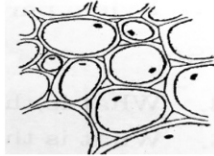
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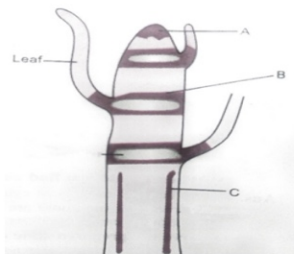
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Q. 7-Observe the given figures and answer the following questions:- (5)



a) Which tissue the figure shows?

b) Label A, B and C.

c) Write function of A and C.

d) which part is responsible for increase in growth of internode?

