

# Tissues

## Assertion & Reason Type Questions

**Directions :** Each of the following questions consists of two statements, are **Assertion (A)** and the other is **Reason (R)**. Select the correct answer to these questions from the codes (a) (b) (c) and (d) as given below:

- a. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
- b. Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).
- c. Assertion (A) is true but Reason (R) is false.
- d. Assertion (A) is false but Reason (R) is true.

**Q1. Assertion (A):** Tissues give the highest possible efficiency of function.

**Reason (R):** Tissues bring about division of labour in multicellular organisms.

**Answer :** (a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).

**Q2. Assertion (A):** Growth of plants is restricted to certain specific regions.

**Reason (R):** Plants have a large quantity of supportive tissue which is mostly made of dead cells.

**Answer :** (b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).

**Q3. Assertion (A):** Meristematic tissues constitute the major portion of plant body.

**Reason (R):** Meristematic tissues, after differentiation, give rise to permanent tissues.

**Answer :** (d) Assertion (A) is false but Reason (R) is true. Permanent tissues constitute the major portion of plant body.

**Q4. Assertion (A):** Permanent tissue are derived from meristematic tissue when they lose the ability to divide.

**Reason (R):** Meristematic tissue is the dividing tissue in the growing regions of the plant.

**Answer :** (b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).

**Q5. Assertion (A):** It is difficult to pull out the husk of a coconut tree.

**Reason (R):** Husk of a coconut tree has sclerenchyma cells having thick walls.

**Answer :** (a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).

**Q6. Assertion (A):** There is no intercellular space between the cells of epidermal layer.

**Reason (R):** The epidermal layer consists of stomata that performs the function of gaseous exchange and transpiration.

**Answer :** (b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).

**Q7. Assertion (A):** Epithelial tissue acts as a barrier to keep the different body systems separate from each other.

**Reason (R):** Epithelial tissue provides a supporting framework to the body.

**Answer :** (c) Reason (R) is false because Bones provides a supporting framework to the body.

**Q8. Assertion (A):** Surface of skin is impervious to water.

**Reason (R):** Surface of skin is covered by cuboidal epithelium.

**Answer :** (c) Reason (R) is false because Surface of skin is covered by stratified squamous epithelium.

**Q9. Assertion (A):** Bone cells are embedded in a hard matrix.

**Reason (R):** The matrix found in our body may be jelly like, fluid, dense or rigid.

**Answer :** (b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).

**Q10. Assertion (A):** Smooth muscles are spindle-shaped and uninucleate.

**Reason (R):** They are found in the iris of the eye, in ureters and in the bronchi of the lungs.



**Answer :** (b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).

