

NEET MORPHOLOGY OF FLOWERING PLANTS — THE STEM AND ITS MODIFICATIONS — PYQS

Max. Marks: 44

Questions: 11

Section A (MCQ) — 11 questions

Q.1 Identify the correct set of statements:
Choose the correct answer from the options given below:

- A. The leaflets are modified into pointed hard thorns in *Citrus* and *Bougainvillea*
- B. Axillary buds form slender and spirally coiled tendrils in cucumber and pumpkin
- C. Stem is flattened and fleshy in *Opuntia* and modified to perform the function of leaves
- D. *Rhizophora* shows vertically upward growing roots that help to get oxygen for respiration
- E. Subaerially growing stems in grasses and strawberry help in vegetative propagation

[NEET (UG) 2022]

- (1) (B) and (C) only
- (2) (A) and (D) only
- (3) (B), (C), (D) and (E) only
- (4) (A), (B), (D) and (E) only

Scan or tap for the full solution



Q.2 Which of the following statement is not correct?
[NEET (UG) 2022 (Phase 2)]

- (1) The rhizome is thick, prostrate and branched
- (2) Rhizome is a condensed form of stem
- (3) The apical bud in rhizome always remains above the ground
- (4) The rhizome is aerial with no distinct nodes and internodes

Scan or tap for the full solution



Q.3 In *Bougainvillea*, thorns are the modifications of
[NEET 2017]

- (1) adventitious root (2) stem
- (3) leaf (4) stipules

Scan or tap for the full solution



Q.4 Which of the following is not a stem modification?
[NEET 2016 (Phase 1)]

- (1) Tendrils of cucumber
- (2) Flattened structures of *Opuntia*
- (3) Pitcher of *Nepenthes*
- (4) Thorns of *Citrus*

Scan or tap for the full solution



Q.5 Stems modified into flat green organs performing the functions of leaves are known as

[NEET 2016 (Phase 1)]

- (1) phylloclades (2) scales
- (3) cladodes (4) phyllodes.

Scan or tap for the full solution



Q.6 An example of edible underground stem is

[AIPMT 2014]

- (1) carrot (2) groundnut
- (3) sweet potato (4) potato.

Scan or tap for the full solution



Q.7 The "eyes" of the potato tuber are

[AIPMT 2011 (Prelims)]

- (1) root buds (2) flower buds
- (3) shoot buds (4) axillary buds.

Scan or tap for the full solution



Q.8 Which one of the following is a xerophytic plant in which the stem is modified into the flat green and succulent structure?

[AIPMT 2010 (Mains)]

- (1) *Opuntia* (2) *Casuarina*
- (3) *Hydrilla* (4) *Acacia*

Scan or tap for the full solution



Q.9 Vegetative propagation in *Pistia* occurs by

[AIPMT 2010 (Mains)]

- (1) stolon (2) offset (3) runner (4) sucker

Scan or tap for the full solution



Q.10 Vegetative propagation in mint occurs by

[AIPMT 2009]

(1) offset (2) rhizome (3) sucker (4) runner.

Scan or tap for the
full solution



Q.11 What is the eye of potato?

[AIPMT 2001]

(1) Axillary bud (2) Accessory bud
(3) Adventitious bud (4) Apical bud

Scan or tap for the
full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	3	4	2	3	1	4	4	1	2	3	1