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NEET ANATOMY OF FLOWERING PLANTS — ANATOMY OF DICOT AND MONOCOT ROOT — PYQS

Max. Marks: 36 **Questions:** 9

Section A (MCQ) — 9 questions

Q.1 Initiation of lateral roots and vascular cambium during secondary growth takes place in cells of [NEET (UG) 2022 (Phase 2)]

(1) Pericycle (2) Epiblema
(3) Cortex (4) Endodermis

Scan or tap for the full solution

Q.2 Casparian strips occur in [NEET 2018]

(1) pericycle (2) epidermis
(3) endodermis (4) cortex

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Q.3 Cortex is the region found between - [NEET 2016 (Phase 2)]

(1) endodermis and pith
(2) endodermis and vascular bundle
(3) epidermis and stele
(4) pericycle and endodermis

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Q.4 A major characteristic of the monocot root is the presence of : [AIPMT 2015 (Cancelled)]

(1) Vasculature without cambium
(2) Cambium sandwiched between phloem and xylem along the radius
(3) Open vascular bundles
(4) Scattered vascular bundles

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Q.5 You are given a fairly old piece of dicot stem and a dicot root. Which of the following anatomical structures will you use to distinguish between the two? [AIPMT 2014]

(1) Secondary xylem (2) Protoxylem
(3) Secondary phloem (4) Cortical cells

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Q.6 As compared to a dicot root, a monocot root has [AIPMT 2012 (Mains)]

(1) More abundant secondary xylem
(2) Relatively thicker periderm
(3) Many xylem bundles
(4) Inconspicuous annual rings

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Q.7 Anatomically fairly old dicotyledonous root is distinguished from the dicotyledonous stem by : [AIPMT 2009]

(1) Absence of secondary phloem
(2) Presence of cortex
(3) Position of protoxylem
(4) Absence of secondary xylem

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Q.8 Passage cells are thin-walled cells found in:- [AIPMT 2007]

(1) Endodermis of roots facilitating rapid transport of water from cortex to pericycle
(2) Testa of seeds to enable emergence of growing embryonic axis during seed germination.
(3) Phloem elements that serve as entry points for substances for transport to other plant parts
(4) Central region of style through which the pollen tube grows towards the ovary.

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Q.9 Four radial vascular bundles are found in : - [AIPMT 2002]

(1) Monocot stem (2) Dicot stem
(3) Dicot root (4) Monocot root

Scan or tap for the full solution

ANSWER KEY

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