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NEET ANATOMY OF FLOWERING PLANTS — PERMANENT TISSUES: COMPLEX (XYLEM, PHLOEM) — PYQS

Max. Marks: 52 **Questions:** 13

Section A (MCQ) — 13 questions

Q.1 Which one of the following is not found in Gymnosperms? [RE-NEET (UG) 2024]

(1) Sieve cells (2) Albuminous cells
(3) Tracheids (4) Vessels

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Q.2 Which of the following helps in maintenance of the pressure gradient in sieve tubes? [RE-NEET (UG) 2024]

(1) Albuminous cells (2) Sieve cells
(3) Phloem parenchyma (4) Companion cells

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Q.3 Given below are two statements :
Statement-I: Endarch and exarch are the terms often used for describing the position of secondary xylem in the plant body.
Statement-II: Exarch condition is the most common feature of the root system.

In the light of the above statements, choose the correct answer from the options given below: [NEET (UG) 2023]

(1) Both Statement-I and Statement-II are false
(2) Statement-I is correct but Statement-II is false
(3) Statement-I is incorrect but Statement-II is true
(4) Both Statement-I and Statement-II are true

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Q.4 Phloem in gymnosperms lacks: [NEET (UG) 2019]

(1) Companion cells only
(2) Both sieve tubes and companion cells
(3) Albuminous cells and sieve cells
(4) Sieve tubes only

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Q.5 Tracheids differ from other tracheary elements in : [AIPMT 2014]

(1) being imperforate
(2) having Casparian strips
(3) lacking nucleus
(4) being lignified

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Q.6 Gymnosperms are also called softwood spermatophytes because they lack [AIPMT 2012 (Prelims)]

(1) Cambium (2) Thick-walled tracheids
(3) Phloem fibres (4) Xylem fibres

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Q.7 Companion cells are closely associated with [AIPMT 2012 (Prelims)]

(1) Sieve elements (2) Trichomes
(3) Vessel elements (4) Guard cells

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Q.8 Transport of food material in higher plants takes place through - [AIPMT 2010 (Mains)]

(1) Sieve elements (2) Transfusion tissue
(3) Companion cells (4) Tracheids

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Q.9 The chief water conducting elements of xylem in gymnosperms are : [AIPMT 2010 (Prelims)]

(1) Fibres (2) Transfusion tissue
(3) Vessels (4) Tracheids

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Q.10 The annular and spirally thickened conducting elements generally develop in the protoxylem when the root or stem is - [AIPMT 2009]

(1) Maturing (2) Widening
(3) Elongating (4) Differentiating

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Q.11 A common structural feature of vessel elements and sieve tube elements is- [AIPMT 2006]

(1) Enucleate condition
(2) Presence of p-protein
(3) Thick secondary walls
(4) Pores on lateral wall

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Q.12 Which of the following statements is true ? [AIPMT 2002]

(1) Tracheids are unicellular and with wide lumen
(2) Tracheids are multicellular and with narrow lumen
(3) Vessels are multicellular and with wide lumen
(4) Vessels are unicellular and with narrow lumen

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Q.13 Vessels are found in: [AIPMT 2002]

(1) Most of the angiosperms and a few gymnosperms
(2) All angiosperms and some gymnosperms
(3) All pteridophyta
(4) All angiosperms, all gymnosperms and some pteridophyta

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	**4**	**4**	**3**	**2**	**1**	**4**	**1**	**1**	**4**	**3**	**1**
Ques.	12	13									
Ans.	**3**	**1**									