



TARGET : NEET (UG) 2024

Course : SARANSH (Youtube Live CRASH COURSE)

BIOLOGY

DPP

DAILY PRACTICE PROBLEMS

DPP NO. 1

BOTANY : ANATOMY OF FLOWERING PLANTS

DPP No. : 1

1. Grasses regenerate by the activity of

(1) Secondary meristem	(2) Lateral meristem
(3) Apical meristem	(4) Intercalary meristem

2. Specialised epidermal cells surrounding the guard cells are called :

(1) Lenticels	(2) Complementary cells
(3) Subsidiary cells	(4) Bulliform cells

3. Stomata in grass leaf are

(1) Dumb-bell shaped	(2) Barrel shaped
(3) Rectangular	(4) Kidney shaped

4. Casparian strips occur in

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

5. The transverse section of a plant shows following anatomical features :
 - (a) Large number of scattered vascular bundles surrounded by bundle sheath
 - (b) Large conspicuous parenchymatous ground tissue
 - (c) Vascular bundles conjoint and closed
 - (d) Phloem parenchyma absent

Identify the category of plant and its part :

(1) Monocotyledonous root	(2) Dicotyledonous stem
(3) Dicotyledonous root	(4) Monocotyledonous stem

6. Phloem in gymnosperms lacks :

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

7. Match List – I with List – II

List – I		List – I	
(a)	Cells with active division capacity	(i)	Vascular tissues
(b)	Tissue having all cells similar and structure and function	(ii)	Meristematic tissue
(c)	Tissue having different types of cells	(iii)	Sclereids
(d)	Dead cells with highly thickened walls and narrow lumen	(iv)	Simple tissue

Select the correct answer from the option given below.

- | | | | | |
|-----|------------|------------|------------|------------|
| | (a) | (b) | (c) | (d) |
| (1) | (iv) | (iii) | (ii) | (i) |
| (2) | (i) | (ii) | (iii) | (iv) |
| (3) | (iii) | (ii) | (iv) | (i) |
| (4) | (ii) | (iv) | (i) | (iii) |

8. Read the following statements about the vascular bundles:

- (a) In roots, xylem and phloem in vascular bundle are arranged in an alternate manner along the different radii
- (b) Conjoint closed vascular bundles do not possess cambium
- (c) In open vascular bundle cambium is present in between xylem and phloem
- (d) The vascular bundle of dicotyledonous stem possess endarch protoxylem
- (e) In monocotyledonous root, usually there are more than six xylem bundles present

Choose the correct answer from the option given below:

- | | |
|-------------------------------|-------------------------------|
| (1) (a), (b) (c) and (d) Only | (2) (a), (c) (d) and (e) Only |
| (3) (a), (b) and (c) Only | (4) (b), (c) (d) and (e) Only |

9. 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:

- (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.

10. Consider the following plant tissues:

- | | |
|-----------------------------|---------------------------------|
| (A) Axillary buds | (B) Fascicular vascular cambium |
| (C) Interfascicular cambium | (D) Cork cambium |
| (E) Intercalary meristem | |

Identify the lateral meristems among the above.

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

Answer key

- | | | | | | | | | | | | |
|----|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|
| 1. | (4) | 2. | (3) | 3. | (1) | 4. | (2) | 5. | (1) | 6. | (4) |
| 7. | (4) | 8. | (4) | 9. | (3) | 10. | (2) | | | | |