

NEET PLANT GROWTH AND DEVELOPMENT — PHOTOPERIODISM AND VERNALISATION (OLD SYLLABUS) — PYQS

Max. Marks: 48

Questions: 12

Section A (MCQ) — 12 questions

Q.1 The site of perception of light in plants during photoperiodism is [NEET (UG) 2021]

- (1) Leaf (2) Shoot apex
(3) Stem (4) Axillary bud

Scan or tap for the full solution 

Q.2 What is the site of perception of photoperiod necessary for induction of flowering in plants? [NEET (UG) 2019]

- (1) Shoot apex (2) Leaves
(3) Lateral buds (4) Pulvinus

Scan or tap for the full solution 

Q.3 Phytochrome is a [NEET 2016 (Phase 2)]

- (1) flavoprotein (2) glycoprotein
(3) lipoprotein (4) chromoprotein

Scan or tap for the full solution 

Q.4 Through their effects on plant growth regulators, what do the temperature and light control in the plants? [AIPMT 2012 (Mains)]

- (1) Apical dominance (2) Flowering
(3) Closure of stomata (4) Fruit elongation

Scan or tap for the full solution 

Q.5 Vernalization stimulates flowering in [AIPMT 2012 (Mains)]

- (1) zamikand (2) turmeric
(3) carrot (4) ginger.

Scan or tap for the full solution 

Q.6 Photoperiodism was first characterised in [AIPMT 2010 (Prelims)]

- (1) tobacco (2) potato (3) tomato (4) cotton

Scan or tap for the full solution 

Q.7 Importance of day length in flowering of plants was first shown in [AIPMT 2008]

- (1) cotton (2) *Petunia* (3) *Lemna* (4) tobacco

Scan or tap for the full solution 

Q.8 The wavelength of light absorbed by P_r form of phytochrome is [AIPMT 2007]

- (1) 680 nm (2) 720 nm (3) 620 nm (4) 640 nm

Scan or tap for the full solution 

Q.9 One set of the plant was grown at 12 hours day and 12 hours night period cycles and it flowered while in the other set night phase was interrupted by flash of light and it did not produce flower. Under which one of the following categories will you place this plant? [AIPMT 2004]

- (1) Long day (2) Darkness neutral
(3) Day neutral (4) Short day

Scan or tap for the full solution 

Q.10 Which pigment absorbs the red and far-red light? [AIPMT 2002]

- (1) Cytochrome (2) Phytochrome
(3) Carotenoids (4) Chlorophyll

Scan or tap for the full solution 

Q.11 Which plant is LDP? [AIPMT 2001]

- (1) Tobacco (2) *Glycine max*
(3) *Mirabilis jalapa* (4) Spinach

Scan or tap for the full solution 

Q.12 Proteinaceous pigment which controls the activities concerned with light is [AIPMT 2001]

- (1) Carotenoids (2) Phytochrome
(3) Chlorophyll (4) Anthocyanin

Scan or tap for the full solution 

ANSWER KEY

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