

NEET PHOTOSYNTHESIS IN HIGHER PLANTS — FACTORS AFFECTING PHOTOSYNTHESIS (BLACKMAN'S LAW) — PYQS

Max. Marks: 12

Questions: 3

Section A (MCQ) — 3 questions

Q.1 With reference to factors affecting the rate of photosynthesis, which of the following statements is not correct? [NEET 2017]

- (1) Increasing atmospheric CO₂ concentration up to 0.05% can enhance CO₂ fixation rate.
- (2) C₃ plants respond to higher temperature with enhanced photosynthesis while C₄ plants have much lower temperature optimum.
- (3) Tomato is a greenhouse crop which can be grown in CO₂-enriched atmosphere for higher yield.
- (4) Light saturation for CO₂ fixation occurs at 10% of full sunlight.

Scan or tap for the
full solution



Q.2 Photosynthetic Active Radiation (PAR) has the following range of wavelengths. [AIPMT 2005]

- | | |
|----------------|----------------|
| (1) 340–450 nm | (2) 400–700 nm |
| (3) 500–600 nm | (4) 450–950 nm |

Scan or tap for the
full solution



Q.3 Plants adapted to low light intensity have [AIPMT 2004]

- (1) larger photosynthetic unit size than the sun plants
- (2) higher rate of CO₂ fixation than the sun plants
- (3) more extended root system
- (4) leaves modified to spines.

Scan or tap for the
full solution



ANSWER KEY

Ques.	1	2	3								
Ans.	2	2	1								