

Class-11

Sub : Biology

Chapter: Photosynthesis In Higher Plants

MODEL QUESTIONS WITH ANSWER

Q1. Photosynthesis occurs in :

- a) Chloroplast b) Nucleus c) Mitochondria d) Golgi body

Ans: a) Chloroplast

Q2. Kranz anatomy is found in the leaves of:

- a) C3 Plants b) C4 Plants c) both d) none

Ans: b) C4 Plants

Q3. Photosynthetically active radiation (PAR) is represented by the range of wavelength of :

- a) 350-450 nm b) 400-700 nm c) 500-600 nm d) 450-950 nm

Ans: b) 400-700 nm

Q4 Where does light reaction take place:

- a) Grana b) Stroma c) Cytoplasm d) Ribosome

Ans: a) Grana

Q5 Non-cyclic photophosphorylation results in the formation of :

- a) ATP b) ATP and NADPH c) NADPH d) None

Ans: b) ATP and NADPH

Q6 Where does dark reaction take place:

- a) Grana b) Stroma lamellae c) Stroma d) all

Ans: c) Stroma

Q7 The first acceptor of CO₂ in C₄ plants is :

- a) Malic acid b) Oxaloacetic acid c) Phosphoenol pyruvate (PEP)
d) Aspartic acid

Ans: C) Phosphoenol pyruvate (PEP)

Q8 The first stable product of C₃ cycle is :

- a) PGA b) OAA c) PEP d) RUBP

Ans : a) PGA

Q9 Rubisco enzyme in C₄ plant is found in :

- a) Mesophyll cell b) Mitochondria c) Peroxisome
d) Bundle Sheath cell

Ans: d) Bundle Sheath cell

Q10 In PS II the reaction centre is :

- a) P₇₀₀ b) P₆₈₀ c) P₄₀₀ d) P₆₅₀

Ans: b) P₆₈₀

Q11 Which is the primary acceptor of CO₂ in C₃ plants:

- a) RUBP b) PEP c) OAA d) PGA

Ans: a) RUBP

Q12 Photorespiration occurs in :

- a) C₄ plants b) C₃ plants c) Both d) None

Ans : C₃ plants

Q13 During photosynthesis oxygen is evolved from :

- a) Water b) Sunlight c) CO₂ d) Chlorophyll

Ans: a) water

Q14 Which element is required for photolysis of water:

- a) Mg b) Mn c) Fe d) Zn

Ans: B) Mn

Q15 Law of limiting factor was proposed by:

- a) Blackman b) Hill c) Arnold d) Engelmann

Ans: a) Blackman

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