

Episode-24

*During light reaction in photosynthesis the following are formed _____

- a) ATP and Glucose b) Hydrogen, O₂ & sugar
c) ATP, Hydrogen donor & O₂ d) ATP, H₂O, O₂ & NADPH₂

Ans: d

*Who showed that the "Green plants purify the atmospheric air"

- a) Jan Ingenhousz b) Julius-Von-Sachs
c) T.W. Engelmann d) Joseph Priestley

Ans: d

*In chromatographic separation of the leaf pigments chlorophyll-a shows _____ colour

- a) Yellow green b) Yellow c) Yellow orange d) Blue green

Ans: d

*Which of the following elements are associated with the chlorophyll molecule

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

Ans: a

*In chemiosmotic hypothesis the ATP synthesis takes place at which place in chloroplast

- a) Granum b) Stroma c) Lumen of Thylakoid d) Membrane of Thylakoid

Ans: b

*Primary CO₂ acceptor in C₃ pathway is _____

- a) PEP b) RUBP c) RUMP d) RUBISCO

*During Calvin's cycle the synthesis of one molecule of Glucose requires

- a) 18 molecules of NADPH₂ and 12 molecules of ATP
b) 18 molecules of ATP and 12 molecules of NADPH₂
c) 12 molecules of each of ATP and NADPH₂
d) 18 molecules of each of ATP and NADPH₂

Ans: a

*Kranz anatomy is one of the characteristics of leaves of

- a) Wheat b) Potato
c) Mustard d) Maize

Ans: d

*Respiration is also called

- a) Catabolism b) Oxidation
c) Destructive process d) All of these

Ans: d

*During Glycolysis the assimilatory power i.e. NADPH₂ synthesis takes place in between

- a) Fructose-6-phosphate to fructose-1,6-diphosphate

- b) 3- diphosphoglyceraldehyde to 1,3-diphosphoglycericacid
- c) 1,3-diphosphoglyceric acid to 3-phosphoglycericacid
- d) Phosphoenolpyruvicacid to pyruvic acid.

Ans- b

*Single turn of citric acid cycle yields

- a) 2FADH₂ ,2WADH₂,2ATP
- b) 1FADH₂,2NADH₂,1GTP
- c) 1FADH₂,3NADH₂,1GTP
- d) 1FADH₂,4NADH₂,1GTP

Ans- c

*Which of the fallowing plant organs is responsible for flowering in plant

- a)Stem
- b) Branch
- c)Leaves
- d) Root

Ans- c