



SHIKSHA CLASSES

Subject : Biology

Question Paper

Total Marks :20

Class : XI

12 : Photosynthesis

Time : 1 Hour

SECTION A

Q.1 : Choose the correct option : 4

- i) A cell that lacks chloroplast does not\
- a) evolve carbon dioxide
 - b) liberate oxygen
 - c) require water
 - d) utilize carbohydrates
- ii) How many Calvin cycles are required to produce one molecule of glucose?
- a) 3 b) 4
 - c) 5 d) 6
- iii) CAM plants are mostly
- a) Tropical plants b) Succulents
 - c) Monocots d) Mangroves
- iv) In maize and wheat, the first stable products formed in bundle sheath cells respectively are
- a) OAA and PEPA
 - b) OAA and OAA
 - c) OAA and 3PGA .
 - d) 3PGA and OAA

Q.2 : Answer the following : 2

- i) What is excited state?
- ii) Define Quantum energy.

SECTION B

: Answer the following : (ANY 3) 6

Q.3 : Explain why photosynthesis is considered the most important process in the biosphere.

Q.4 : Distinguish between action spectrum and absorption spectrum.

Q.5 : Explain Hill reaction.

Q.6 : What is functional significance of Kranz anatomy?

Q.7 : Draw a neat labelled diagram of CAM pathway.

SECTION C

: Answer the following : (ANY 3) 9

Q.8 : State and explain the Blackman's law of limiting factor.

Q.9 : Differentiate between C3 and C4 plant.

Q.10 : Diagrammatically explain the process of photorespiration.

Q.11 : Describe diagrammatically Cyclic photo phosphorylation.

Q.12 : What are the two types of photosystems?

SECTION D

: Answer the following : (ANY 1) 4

Q.13 : Describe Diagrammatically Non- cyclic photosynthesis.

Q.14 : Describe Calvin's cycle.

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