



Date: 6-12-2024

LGS GROUP OF COLLEGES

Biology

MONTHLY TEST

XI

TEST#

MT-2

Subject: Biology	Name:.....	Roll No:					
Time: 60 mins	Objective	Marks = 35					

SECTION-I OBJECTIVE TYPE

Note: Four possible answer A, B, C and D to each question are given. The choice which you think is correct, fill the circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question. (1 × 11 = 11)

Q1. Select the right option.

- Which of the following is not the wavelength of visible light?
 - 380 nm
 - 750 nm
 - 580 nm
 - 560 mm
- Which of the following wavelength is least absorbed by chlorophyll?
 - Red
 - Green
 - Blue
 - Orange
- Which of the following is irrelevant?
 - Calvin cycle
 - Dark reaction
 - Light reaction
 - C₃ pathway
- Which of the following acceptor is absent during cyclic phosphorylation?
 - Cytochrome complex
 - Ferredoxin
 - NADP
 - Plastocyanin
- Which of the following is end product of calvin cycle?
 - Glucose
 - PGA
 - G3P
 - Starch
- Which of the following mechanism is involved in the synthesis of ATP?
 - Reduction
 - Oxidation
 - Chemiosmosis
 - None of these
- The percentage of photosynthesis in land plants is -----
 - 5 %
 - 60 %
 - 10 %
 - 20 %
- How many atoms of oxygen are present in chlorophyll b?
 - 02
 - 04
 - 06
 - 08
- It is a measure of effectiveness of light of various wavelengths in driving photosynthesis.
 - Emission spectrum
 - Absorption spectrum
 - Atomic spectrum
 - Action spectrum
- Which one of the following is a universal photosynthetic pigment?
 - Chl a
 - Xanthophyll
 - Chl b
 - Carotenoids
- Which part of chlorophyll molecule absorbs light?
 - Phytol
 - Pyrrole
 - Porphyrin
 - Thylakoid membrane



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SECTION-II SUBJECTIVE TYPE

Q2. Write short answers.

(8 x 2 = 16)

- i) Is there any exchange of gases between leaves and atmosphere during dawn and dusk. If not then why?
- ii) How it was proved that oxygen was released from H_2O not from CO_2 ?
- iii) Differentiate between absorption spectrum and action spectrum.
- iv) Differentiate between chlorophyll a and chlorophyll b.
- v) What is porphyrin ring?
- vi) What are accessory pigments?
- vii) What do you know about chemiosmosis?
- viii) Define photosystems and what are the part of a photosystem?

SECTION – II (PART-II)

Note: Attempt one question.

(4 + 4 = 8)

- Q3. a) Explain role of carbon dioxide a photosynthetic reactant. (04)**
- b) Draw and label the diagram of calvin cycle. (Description not required) (04)**