

#### Q1. Photosynthesis

Photosynthesis is the process by which green plants prepare their own food using sunlight.

It takes place in the chloroplast and requires chlorophyll, water, and carbon dioxide.

The process results in the formation of glucose and the release of oxygen.

(Max Marks: 5)

#### Q2. Ohm's Law

Ohm's Law states that the current flowing through a conductor is directly proportional

to the voltage applied across it, provided the temperature remains constant.

(Max Marks: 3)

#### Q3. Database Normalization

Database normalization is the process of organizing data in a database to reduce redundancy

and improve data integrity. It involves dividing large tables into smaller tables and

defining relationships between them using keys.

(Max Marks: 4)

#### Q4. Machine Learning

Machine learning is a branch of artificial intelligence that enables systems to learn

from data and improve performance without being explicitly programmed. It uses algorithms

to identify patterns and make predictions.

(Max Marks: 5)