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SUBJECT CODE NO:- B-2064
FACULTY OF SCIENCE & TECHNOLOGY
B.Sc. S.Y. (Sem-IV)
Examination November/December- 2022
Botany Paper- XII
Plant Physiology

[Time: 1:30 Hours]

[Max. Marks:50]

Please check whether you have got the right question paper.

- N.B
- i) Attempt all questions.
 - ii) Illustrate your answer with suitable labeled diagram.

Q.1 What is ascent of sap? Describe transpiration pull theory. 20

OR

What are auxins? Describe its practical application. 20

Q.2 Define photophosphorylation and describe cyclic photophosphorylation. 20

OR

Write short notes (any four) 20

- 1) Active water absorption
- 2) Protoplasmic streaming theory
- 3) Apoenzyme
- 4) Gibberellin
- 5) CAM
- 6) Alcoholic fermentation

Q.3 Multiple choice questions. 10

1. Plasmolysis occur due to -----

a) Absorption	c) Endosmosis
b) Osmosis	d) Exosmosis
2. Hydroponics is -----

a) Growing of aquatic plants	c) Soil-less cultivation of plants
b) Growing of xerophytic plants	d) All of the above

3. Which of the following is macronutrient?
 - a) Ca
 - b) Mn
 - c) Zn
 - d) Cu
4. Most common role of cytokinin in plants is ----.
 - a) Cell elongation
 - b) Cell division
 - c) Elongation of internode
 - d) Apical dominance
5. Which hormone is responsible for ripening of fruits.
 - a) Auxin
 - b) Cytokinin
 - c) Ethylene
 - d) Gibberellin
6. What is end product of glycolysis.
 - a) Lactic acid
 - b) Pyruvic acid
 - c) Malic acid
 - d) Glucose
7. Enzymes are polymers of -----.
 - a) Hexose sugar
 - b) Amino-acid
 - c) Fatty acids
 - d) Inorganic phosphate
8. Light reaction occurs in ----.
 - a) Grana
 - b) Struma
 - c) Thylakoid
 - d) Mitochondria
9. Currency of a cell is -----.
 - a) Mitochondria
 - b) ATP
 - c) Grana
 - d) Fat
10. Kranz anatomy found in -----.
 - a) Fungi
 - b) C₃ plants
 - c) C₄ plants
 - d) None of these