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**SUBJECT CODE NO:- B-2168**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. S.Y (Sem.-IV) Examination OCT/NOV 2019**  
**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 Describe in detail the concept by water absorption unplants. 20

OR

Explain the phases of growth.

Q.2 What is CAM pathway? Explain in detail. 20

OR

Write Short Notes (Any Four)

- a) Ascent of sap
- b) Starch-sugar hypothesis
- c) Lock & key theory of enzyme
- d) Cytokinins
- e) Chloroplast
- f) C3 cycle

Q.3 Multiple choice questions. 10

- 1) Stomata open at night & close during day time in
  - a)Xerophytes
  - b)Mesophytes
  - c)Succulents
  - d)Hydrophytes
- 2) The end product of glycolysis is
  - a)Acetyl co-enz yme
  - b)Pyruric acid
  - c)Co2 & H2o
  - d)Fruc tose

3) Dieback disease of shoot is caused due to deficiency of

- a) Copper
- b) Chlorine
- c) Sulphur
- d) Irona

4) IAA is also known as

- a) Indokacetaldehyde
- b) Indolepyruvicacid
- c) Indole acetonitrate
- d) Indole 3 aceticacid

5) The protein part of enzyme is called

- a) Apoenzyme
- b) Holoenzyme
- c) Zymagen
- d) Prosthetic group

6) Slow & Steady growth of plant occurs during

- a) Lag phase
- b) Log phase
- c) Senescence phase
- d) None of these

7) Seed dormancy can be broken by

- a) Ethylene
- b) Gibberellin
- c) Auxin
- d) Cytokinin

8) Dimorphic Chloroplasts are present in

- a) All Types
- b) Sugar cane
- c) China rose
- d) Wheat

9) Emerson effect proves

a) Photophosphorylation

c) Photorespiration

b) Two photosystem in plants

d) None of these

10) At night green plants release

a) Co<sub>2</sub>

c) O<sub>2</sub>

b) Water

d) All of these