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(Printed Pages 3)

(20425)

Roll No. R2306862500621

B.Sc. (Bio-Tech.)-II Year

**3471**

**B.Sc. (Biotechnology)**

**Examination, April-2025**

**PLANT PHYSIOLOGY**

**(B-208)**

**(B.Sc. Biotech.)**

*Time : Three Hours ]*

*[Maximum Marks : 50*

**Note :** Attempt any **five** questions. **All**

questions carry equal marks.

1. Write detailed note the following:

5×2=10

(a) Oxidative phosphorylation

(b) Physiological role of Auxin

2. Discuss the mechanisms of absorption of mineral salts by plants. How does it differ from absorption of water? 10

**P.T.O.**

3. Describe the process of Biological Nitrogen Fixation by the plants? 10
4. Write short notes on any **two** of the following: 5×2=10
- (a) Difference between C3 and C4 cycles?
  - (b) Vernalisation
  - (c) Photo respiration
5. Describe Kerbs cycle in detail along with energetics. 10
6. (i) Discuss significance of senescence in plants? 5×2=10
- (ii) Enlist cause of dormancy in plants seeds?
7. Define the photosynthesis and explain the mechanisms of light reaction? 10

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8. Write short notes on any **two** of the following: 5×2=10
- (a) Measurement of growth in plants
  - (b) Micronutrients
  - (c) Deficiency symptoms of any four macronutrients.
9. Write short notes on any **two** of the following: 5×2=10
- (a) Photosynthetic pigments
  - (b) Compensation point
  - (c) Factors affecting photosynthesis
10. (i) Discuss the role of the Forigen in flowering. 4
- (ii) What is vernalisation. 3
- (iii) Differentiate between phototropism and Geotropism. 3

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