

Roll No. _____

22/3241**B.Sc. (Part-II) Examination, 2022****BOTANY****Third Paper****(Plant Physiology and Biochemistry)**

समय : 1:30 घण्टे

पूर्णांक : 50

Time : 1:30 Hours]

[Maximum Marks : 50

Note : Answer questions of **Section-A** and **Section-B** as directed. The answers to short answer type questions should not exceed **150** words and the answers to long answer type questions should not exceed **350** words.

P.T.O.**22/3241****Section-A****(Short Answer Type Questions)**

Note : Attempt any **five** questions. (Short notes) 4×5=20

- (i) Describe the characteristics of enzyme.
- (ii) Describe the mechanism of ion uptake in plants.
- (iii) Discuss glycolysis.
- (iv) Osmosis
- (v) Biological significance of proteins.
- (vi) C₃ & C₄ Plants in detail.
- (vii) Factors affecting transpiration.
- (viii) Oxidative & Photophosphorylation.

Section-B**(Long Answer Type Questions)**

Note : Attempt any **two** questions. 15×2=30

1. Describe briefly Nitrogen cycle in the nature.

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2. What is photosynthesis? Discuss 'z' scheme of Light reactions.
3. What are growth hormones? Describe the physiological effects of Gibberallin's on plants.
4. What are macro & micro nutrients? Their role in plant growth.
5. Define transpiration. Describe opening and closing of stomata.

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