

**NS-3471(N)**

**B.Sc. (Biotechnology)**

**Examination, June-2022**

**PLANT PHYSIOLOGY**

**(B-208)**

**(B.Sc. BioTech.)**

**(New)**

*Time : Three Hours ]*

*[Maximum Marks : 50*

**Note :** Attempt any **five** questions. **All** questions carry equal marks.

1. Describe the mechanism of ascent of sap. 10
2. Describe about transpiration and its significance for plants. 10

**P.T.O.**

3. Describe the deficiency symptoms of macronutrients. 10
4. Write notes on any **two** of the following: 5×2=10
  - (a) Water potential
  - (b) Guttation
  - (c) Hydroponics
5. Give a detailed on photosystem I and II. 10
6. Describe about pentose phosphate pathway. <https://www.ccsustudy.com> 10
7. Describe the mechanism of mitochondrial electron transport chain. 10
8. Write notes on any **two** of the following: 5×2=10
  - (a) CAM pathway
  - (b) Glycolysis
  - (c) Chlorophyll 'a' and 'b'
  - (d) Photorespiration

**NS-3471(N)/2**

9. Describe the discovery and structure of phytochrome. 10
10. Describe the physiological role of Auxins. 10