



**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Honours 5th Semester Examination, 2020

**CC12-BOTANY**

**PLANT PHYSIOLOGY**

Full Marks: 40

**ASSIGNMENT**

*The questions are of equal value.  
The figures in the margin indicate full marks*

**Answer any four of the following questions each within 300 words** 10×4 = 40

1. Describe the various theories that explain the mechanism of opening and closing of stomata. Briefly discuss the different factors affecting transpiration. 5+5
2. What are plant growth regulators? Explain in details their chemical structure and physiological roles in plants system? 2+8
3. Explain the pressure flow model of translocation in the phloem. Discuss the symplastic pathway of phloem loading. 5+5
4. Discuss the structure, chemical nature and mode of action of phytochrome. Mention its role in photomorphogenesis. 5+5
5. Write the structure and function of membrane proteins involved in membrane transport. Explain the active transport in plant cells. 4+6

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