

Bankura University

B.Sc 5th SEMESTER(Honours) EXAMINATION, 2021

Subject: BOTANY

Course ID: 51312

Course Code: SHBOT/501/C-12

Course Title: **Plant Physiology**

Full Marks: 25

Time : 1 h 15 min

The figures in the margin indicate full marks

Answer all the questions.

UNIT-I

1. Answer any five of the following:

1×5=5

- What is active transport?
- Mention the function of aquaporin?
- Why vernalization is significant?
- Write down the full form of 2,4,5-T.
- What is soil less culture?
- What is phytochrome?
- Which anatomical structure is involve in guttation.
- Name one important chelating agent.

UNIT-II

2. Answer any two of the following:

5×2=10

- What is water potential? Mention its components.
- Write down the different causes of seed dormancy.
- What is photoperiodism? Discuss the role of phytochrome in flowering.
- Give an account of the various factors which affect rate of transpiration. Name one antitranspirant?

UNIT-III

3. Answer any one of the following:

10×1=10

- Write down the physiological roles of IAA on cell elongation, phototropism and apical dominance. What is statolith?
- Enumerate the important physiological role of one macro and one microelement. Write down in brief, the mechanism of ion uptake in vascular plants.