

Total Pages-02

RNLKWC/B.Sc.-CBCS/VS/BOT/H/C12T/22

2022

**BOTANY**  
**[HONOURS]**  
**(CBCS)**

**(B.Sc. Fifth Semester End Examinations-2022)**

**PAPER-C12T**

**[Reproductive Biology of Angiosperms]**

*Full Marks: 40*

*Time: 02 Hrs*

*The figures in the right hand margin indicate marks  
Candidates are required to give their answers in their own words as  
far as practicable*

*Illustrate the answers wherever necessary*

**Group - A**

1. Answer any five of the following:

**5x2=10**

- a) State the difference between macro and micro elements.
- b) Define vernalisation.
- c) Write down the chemical nature of Auxin.
- d) Name two natural and two artificial antitranspirants.
- e) What is SPAC? How is it controlled?
- f) What do you mean by photomorphogenesis?
- g) State the differences between active and passive transport?
- h) What are the sources of ABA in plants?

(2)

**Group – B**

2. Answer any four of the following: 4x5=20
- a) Describe the factors that affect transpiration rate in plants.
  - b) Discuss role of ATP on ion absorption. 4
  - c) What is electrochemical gradient? What are cryptochromes? 2+2
  - d) Describe the role of ABA and Blue light in stomatal movement.
  - e) What are florigens? State their functions.
  - f) Write down the steps of phloem loading. 3+2

**Group – C**

3. Answer any one of the followings: 1x10=10
- a) Write short note on brassinosteroids. What is irradiance and influence? Write down the process of breaking seed dormancy. 4+2+4
  - b) Write down the role of Gibberellin in breaking seed dormancy. Write down the role of different flowering stimulus genes. Write down the deficiency syndromes of Na & Mg. 4+4+2