

Roll No. ....

**21267**

**B. Sc. (Hons.) Chemistry 2nd Semester  
Examination – May, 2019**

**BOTANY - II**

**Paper : CH(H)207 Opt.-I**

*Time : Three Hours ] [ Maximum Marks : 40*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Attempt **five** questions in all. Question No. **1** is **compulsory** and remaining four by selecting **one** from each Unit. All questions will carry equal marks.

- 1.** Define the following terms :  $1 \times 8 = 8$
- (a) Transpiration
  - (b) Symplast
  - (c) Chlorophyll
  - (d) Photorespiration

**P. T. O.**

- (e) Steroids
- (f) Leguminous plants
- (g) Vernalization
- (h) Senescence

**UNIT - I**

**8.** Distinguish between : 4

- 2.** What is ascent of sap ? Discuss the most acceptable theory for ascent of sap. 8

- 3.** Write short notes on the following :  $2 \times 4 = 8$

- (a) Osmosis
- (b) Diffusion
- (c) Imbibition
- (d) Water potential

**UNIT - II**

- 4.** Describe the TCA cycle diagrammatically and its regulation. 8

- 5.** Differentiate the C<sub>3</sub> plants from C<sub>4</sub> plants. 8

**UNIT - III**

- 6.** Explain the structure of various types of carbohydrates and their importance. 8

**7.** Write notes on :

- (a) Biological nitrogen fixation
- (b) Oxidation of fatty acids

**UNIT - IV**