

S.Y.B.SC. SEM – IV (2014 COURSE) : SUMMER - 2018

SUBJECT – BOTANY : PLANT PHYSIOLOGY (B - 42)

Day : Friday

Time : 03.00 PM TO 05.00 PM

Date : 27/04/2018

S-2018-0728

Max. Marks : 40

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**N. B. :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagram **WHEREVER** necessary.
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**Q. 1** Attempt **ANY TWO** of the following: (10)

- a) Describe mechanism of vernalization.
- b) What is osmosis? Explain its mechanism.
- c) What are antitranspirants? Describe concept and its types.

**Q. 2** Attempt **ANY TWO** of the following: (10)

- a) Describe in short Calvin cycle.
- b) Explain in short mechanism of Glycolysis.
- c) Give an account of source-sink relationship.

**Q. 3** Attempt **ANY TWO** of the following: (10)

- a) Explain importance of water in plant life.
- b) What are *nif* genes? Explain.
- c) Explain various phases of growth with suitable examples.

**Q. 4** Attempt **ANY FIVE** of the following: (10)

- a) Define R. Q. value.
- b) Define respiration with an equation.
- c) Explain diffusions and DPD.
- d) What is mean by photoperiodism?
- e) Give mechanism of translocation in phloem.
- f) Explain kinetics of growth.
- g) Give types of transpiration.

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