

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc.(Agriculture) (2014 & Onwards) (Sem.-3)

PLANT PHYSIOLOGY

Subject Code : BSAG-302

Paper ID : [72552]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. SECTION-B contains **FIVE** questions carrying **FIVE** marks each and students have to attempt **ANY FOUR** questions.
3. SECTION-C contains **THREE** questions carrying **TEN** marks each and students have to attempt **ANY TWO** questions.

SECTION-A

Q1 Write short notes on :-

- a) Hydroponics
- b) Senescence
- c) Exalbuminous seeds
- d) Day neutral plants
- e) Transpiration
- f) Stratification
- g) Physiological maturity
- h) Antitranspirants
- i) Dark reaction
- j) Source and sink organs

SECTION-B

- Q2 Describe various components of water potential.
- Q3 Describe the process of photorespiration.
- Q4 What is the locus of vernalization and photoperiodism? Give their significance in plants.
- Q5 Discuss importance of plant physiology in agriculture.
- Q6 Differentiate between climacteric and non-climacteric fruits. Briefly explain hormonal regulation of fruit ripening.

SECTION-C

- Q7 Describe various mechanisms of mineral absorption in plants.
- Q8 Discuss occurrence and biosynthesis of auxins and gibberellins in plants. Give their commercial applications.
- Q9 What are the differences between primary and secondary seed dormancy? Discuss various methods of breaking seed dormancy.