

Roll No. 

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Total No. of Pages : 02

Total No. of Questions : 09

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

**PLANT PHYSIOLOGY**

Subject Code : BSAG-302

M.Code : 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) Symplast
- c) Scarification
- d) Plant physiology
- e) Endospermic seeds
- f) Coleoptile
- g) Day neutral plants
- h) Vernalization
- i) Non-climacteric fruits
- j) Harvest maturity

### SECTION-B

- Q2. Discuss the structure of gram seed with the help of well labeled diagrams.
- Q3. Differentiate between epigeal and hypogeal germination. Give two examples of each.
- Q4. Differentiate between C3, C4 and CAM plants.
- Q5. Discuss the importance of plant physiology in agriculture.
- Q6. Discuss various causes of seed dormancy.

### SECTION-C

- Q7. a) Describe the mechanism of photorespiration in plants.
- b) Discuss the apoplastic and symplastic pathway for translocation of assimilates in plants.
- Q8. Discuss occurrence, biosynthesis, mode of action and commercial applications of gibberellins in plants.
- Q9. Discuss physiological roles and deficiency symptoms of phosphorus and magnesium in plants.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**