

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc.(Agriculture) (2014 to 2018)/Hons. (Agriculture) (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

1. Write short notes on :

- a) Photoperiodism
- b) Biosynthesis of IAA
- c) Short day plants
- d) Physiological maturity
- e) Significance of osmosis
- f) Water potential
- g) Role of nutrients in plants
- h) Type of seed germination
- i) Source-sink relationship
- j) Seed dormancy

SECTION-B

2. Explain biochemical changes during fruit ripening.
3. Define Vernalization. Explain its mechanism and importance.
4. Explain Translocation of assimilates in detail.
5. Explain C₄ pathway of photosynthesis
6. Explain Reserve food mobilization during seed germination

SECTION-C

7. Differentiate senescence and abscission also describe various factors affecting senescence.
8. Explain Photorespiration and CAM pathway in plants.
9. Discuss in detail the role of plant physiologist in agriculture.

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.