-Roll No.	Total No. of Pages:02
Total No. of Questions:09	
B.Sc. Agriculture	(Sem.–2)
FUNDAMENTALS OF CR	OP PHYSIOLOGY
Subject Code : BS	AG-204-19
M.Code: 77	665
Date of Examination	n : 20-12-22
Time:3 Hrs.	Max. Marks:60
INSTRUCTIONS TO CANDIDATES :	

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- 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) Deficiency symptoms of Nitrogen
- b) Osmotic potential, hypotonic and hypertonic solutions
- c) Oxidative phosphorylation
- d) Growth curves
- e) Environmental requirements for paddy crop in Punjab.
- f) Water absorption in saline soils
- g) CAM plants
- h) Water logged soils are physiologically dry soils
- i) Importance of crop physiology in agriculture
- i) Advantages of transpiration.

SECTION-B

- 2. Discuss the role of Gibberellins in plants
- 3. Discuss Light reactions with the help of well labeled diagram.
- 4. Discuss B-oxidation of Fatty acids.
- 5. Discuss the Structure and Functions of Chloroplast.
- 6. Discuss the Physiological factors that influence the crop productivity.

SECTION-C

- 7. Describe the reactions of Krebs cycle and number of ATP generated in this process.
- 8. What is the Role of mineral nutrients and their uptake in plants?
- 9. Discuss the Mechanism of opening and closing of stomata.

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.