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Total Pages : 3

Roll No.

MBOT-509

Plant Physiology

M.Sc. Botany (MSCBOT)

2nd Semester Examination, 2022 (Dec.)

Time : 2 Hours]

[Max. Marks : 35

Note : This paper is of Thirty Five (35) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION-A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Nine and Half (9½) marks each. Learners are required to answer any Two (02) questions only.

(2×9½=19)

1. What do you understand by the "light" and "dark" reactions in photosynthesis?

2. What is Vernalisation? Give some practical uses of this phenomenon?
3. What are macro and micronutrients? Describe the effect of the deficiency of five macro and micronutrients each on plants.
4. What are C3 plants? Describe in detail Calvin cycle.
5. What are plant hormones? Describe the role of ethylene in fruit ripening.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only. (4×4=16)

1. Solution cultures.
2. Mechanism of stomatal transpiration.
3. Differentiate between primary and secondary active transport.
4. Applications of Gibberellins.

5. Drought stress in plants.
 6. Write a short note on Phytochrome.
 7. Seed dormancy.
 8. Functions of Citric Acid Cycle.
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