A-0032

Total Pages: 3 Roll No.

MBOT-509

M.Sc. BOTANY (MSCBOT)

(Plant Physiology)

2nd Semester Examination, Session December 2024

Time: 2:00 Hrs. 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. Candidates
should limit their answers to the questions on the
given answer sheet. No additional (B) answer
sheet will be issued.

Section-A

(Long Answer Type Questions) $2\times9\frac{1}{2}=19$

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.

- Define mineral nutrients and explain role and deficiency symptoms of mineral nutrients.
- Describe the pathway, energy conservation and functions of Glycolysis.
- 3. Define photoperiodism. Discuss its classification.
- 4. Describe in detail the mechanism of stomatal movements with diagram.
- 5. What are plant growth regulators? Discuss their applications in detail.

Section-B

(Short Answer Type Questions) $4\times4=16$

- 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.
- 1. Write a short note on Kreb's cycle.
- 2. Define Seed Dormancy? Discuss its causes.
- 3. Differentiate between the following :
 - (a) Primary and secondary active transport.
 - (b) Photosystem I and II.

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- 4. Give a brief note on drought stress in plants.
- 5. Discuss about alcohol fermentation.
- 6. Give a short note on Vernalization.
- 7. Briefly discuss about Phytochrome.
- 8. Write a short note on Soil less culture.
