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Total Pages : 3

Roll No.

MBOT-503

Gymnosperms, and Plant Anatomy

M.Sc. Botany (MSCBOT)

1st 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. Write a detailed account on distribution of gymnosperms in India.

2. Write a detailed account of reproductive characters of gymnosperms.
3. Write a detailed account on root-stem transition.
4. Explain the vegetative shoot apex in angiosperms.
5. Write a detailed note on epidermal tissue system.

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. Write a short note on advanced characters of gymnosperms.
2. Describe manoxylic and pycnoxylic wood.
3. Write a short note on fossil history of gymnosperms in India.
4. Write a short note on polyembryony in Pinaceae.
5. Differentiate between apical and lateral meristems.

6. Write briefly about hydathodes.
 7. "Hydrophytes are well adapted to their surroundings" support the statement by giving reasons.
 8. Write a short note on anomalous secondary growth in monocot stems.
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