

K-366

Total Pages : 3

Roll No.

MBOT-503

GYMNOSPERMS, AND PLANT ANATOMY

M.Sc. Botany(MSCBOT)

1st Semester Examination, 2023 (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. 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)

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. Give a detailed account of classification proposed by K.R. Sporne for gymnosperms.
2. With the help of suitable diagrams discuss the life cycle of gymnosperms.
3. Discuss the angiospermic features of Gnetales.
4. Explain the vegetative shoot apex in gymnosperms.
5. What are different types of fibres? Give a brief account of their economic importance.

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 primitive characters of gymnosperms.
2. What is a living fossil? Give few examples.
3. Write a short note on economic importance of gymnosperms.
4. Write briefly about wood anatomy of coniferales.

5. Write a short note on Quiescent centre.
 6. Write a short note on glandular trichomes.
 7. Write briefly about anatomical adaptations exhibited by xerophytes.
 8. Write a short note on anomalous secondary growth in dicot roots.
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