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Total Pages : 3

Roll No.

MSCBOT-503

Pteridophytes, Gymnosperms and Palaeobotany

M.Sc. Botany (MSCBOT)-21

1st Semester, Examination, 2022 (Dec.)

Time : 2 Hours]

Max. Marks : 70

Note : This paper is of Seventy (70) 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 Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.
(2×19=38)

1. Compare the classification of Pteridophytes given by Reimers (1954) followed by Sporne (1996) and Smith (2006) and co-workers.

2. What do you understand by stele? Discuss the various type of steles occurred in stem and root in Pteridophytes.
3. Give the economic importance of gymnosperm.
4. What do you understand by fossils? Discuss the various types of fossils in detail.
5. Give a general account on cycadales and Ginkgoals.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. Enlisted the general characteristics of Pteridophytes.
2. Write a short note on *Rhyriia*.
3. Briefly describe the strobilus of *Equisetum*.
4. Discuss the characteristic features of Pentoxylales and contribution of scientists towards discovery and study of Pentoxylales.

5. Draw a T.S. leaf of *Gnetum* with well labelled diagram.
 6. Manoxylic and pyenoxylic wood.
 7. What is paleobotany? Describe its importance.
 8. Discuss any two scientific techniques for studying the fossils that you have studied.
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