

S-1050

Total Pages : 3

Roll No.

BOT-552

Medicinal Plants and Embryology of Angiosperms

M.Sc. Botany (MSCBOT)

2nd Year 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. What is self incompatibility? Define its mechanisms, advantage and biological significance of it.

2. Explain the development of male gametophyte in angiosperms.
3. Describe in detail the cultivation methods of *Aloe barbadensis* ?
4. What is ethnobotany? Define its concept and scope.
5. Write a detail account on the following :
 - (a) Classify the crude drugs on the basis of phytochemicals.
 - (b) Importance of phytochemicals in modern medicine and its significance.

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. Write an Essay on "Why and how to conserve the medicinal plants of India"?
2. Write a short notes on the following :
 - (a) Apospory.
 - (b) Synergids.

- (c) Medicinal value of Ashwagandha.
 - (d) Different types of ovule in angiospermic plants.
3. Explain the applied aspects of palynology.
 4. Write short note on types of embryo sacs in angiospermic plants.
 5. Explain the following :
 - (a) Functions of endosperms.
 - (b) Cryopreservation.
 6. Write a brief note on importance of ethnobotany.
 7. Write a short note on microsporogenesis.
 8. Write notes on following (any four) :
 - (a) CITES.
 - (b) IUCN
 - (c) False Polyembryony.
 - (d) Parthenocarpy.
 - (e) *Ex-situ* conservation.
 - (f) Secondary metabolites.
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