

BOT–552

Medicinal Plants and Embryology of Angiosperms

M. Sc. BOTANY (MSCBOT–12/13/16/17)

Second Year, Examination, 2018

Time : 3 Hours

Max. Marks : 80

Note : This paper is of **eighty (80)** marks containing **three (03)** Sections A, B and C. Learners are required to attempt the questions contained in these Sections according to the detailed instructions given therein.

Section–A

(Long Answer Type Questions)

Note : Section ‘A’ contains four (04) long answer type questions of nineteen (19) marks each. Learners are required to answer *two* (02) questions only.

1. What is ethnobotany ? Describe briefly various aspects of ethnobotany.
2. What is polyembryology ? Explain the kinds of polyembryology ? What are its advantages ?
3. What is endosperm ? Describe various types of endosperm.
4. Write short notes on the following :
 - (a) Magico-religious beliefs in plants
 - (b) Ethnopharmacology
 - (c) Holy Basil
 - (d) Apomixis

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 *four* (04) questions only.

1. Describe cultivation practices for any *two* medicinal plants.
2. Give a brief account on medicinal plants useful for child care.
3. Describe types of ovules in angiosperms.
4. Write a short note on Bael and Latzira.
5. Explain causes of polyembryony.
6. Give a brief account of Palynology.
7. Describe structure of anther.
8. Explain briefly the endosperm haustoria.

Section–C**(Objective Type Questions)**

Note : Section ‘C’ contains ten (10) objective type questions of one (01) mark each. All the questions of this Section are compulsory.

Fill in the blanks :

1. *Jatropha curcas* belongs to family.
2. The botanical name of Indian Belladonna is
3. *Papaver somniferum* is used for
4. Stalk of ovule is named as
5. is known as father of Indian Embryology.

Indicate whether the following statements are True *or* False :

6. Nucellus is the chief nutritive tissue of embryo sac.

(True/False)

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7. Aconite is obtained from stem of *Aconitum heterophyllum*. (True/False)
8. Black pepper is cultivated in Uttarakhand. (True/False)
9. In Angiosperms, the megasporangium is also called as nucellus. (True/False)
10. After fertilization the egg is called as zygote. (True/False)

