

PG (NEW) CBCS
M.Sc. Semester-II Examination, 2020
BOTANY
PAPER: BOT 295
(PRACTICAL)

Full Marks: 30**Time: 2 Hours**

UNIT: 295.1

(ANGIOSPERM TAXONOMY & BIOSYSTEMATICS)

A. Answer any one question of the following: **10×1**

1. Emphasize the diagnostic features of the family Asteraceae with examples.
2. Write down the pollen morphological characters of the family Malvaceae and Amaranthaceae.
3. Write the diagnostic characteristics of the family Acanthaceae with examples.
4. Write down the taxonomic differences between Solanaceae and Fabaceae.

B. Answer any one question of the following: **5×1**

1. Classify different types of fruits found in plants.
2. Describe the importance of herbarium in plant conservation.
3. State the diagnostic features of the family Malvaceae with examples
4. Classify the different types of flowers in plants.

UNIT: 295.2

(PALYNOLOGY & PLANT REPRODUCTIVE)

A. Answer any one question of the following: **10×1**

1. Discuss the methods of fossil slide preparation from petrified fossils using peeling technique.
2. Write down the procedure of pollen morphological studies using acetolysis method.
3. Write down the procedure of extraction of pollen grains from honey sample.
4. Briefly describe the various morphological types of pollen grains.

(P.T.O.)

(2)

B. Answer any one question of the following:**5×1**

1. Write down identifying features of *Lepidodendron* sp. Mention its age of occurrence.
2. Write down identifying features of *Glossopteris* sp. Mention its age of occurrence.
3. Write down identifying features of *Calamites* sp. Mention its age of occurrence.
