

PG CBCS
M.SC. Semester-II Examination, 2021
BOTANY
PAPER: BOT295
(PRACTICAL)

Full Marks: 50

Time: 2 Hours

Write the answer for each unit in separate sheetUNIT- BOT 295.1

1. Answer any **ONE** question of the following: 15X1=15
- I. Name one locally available representative of Acanthaceae. Describe the typical characters of Acanthaceae. Draw and label a dissected flower showing didynamous epipetalous stamen. 2+8+5
- II. Describe the method of preparation of a herbarium sheets of an Angiosperm. How to preserve herbarium sheets? 10+5
- III. Write down the characteric features of *Hygrophilaspinosa*, *Clitoriaternatea* and *Ipomeafistulosapollen* grains. Give the diagram. 5+5+5
2. Answer any **ONE** question of the following: 10X1=10
- I. Write the silent features of Euphorbiaceae. Draw and label the male and female flower of *Jatrofagossypiifolia*. 6+4
- II. Write down the identifying characters with an example of following types of fruits: Drupe, Berry. Write down the floral formula and diagram of *Dentellarepens*. (3+3)+(2+2)

UNIT- BOT 295.2

1. Answer any **ONE** question of the following: 15X1=15
- I. Write down Acetolysis method (Eardtman, 1960) for the preparation of pollen grains. Draw label and describe the pollen grains of *Pinus* sp. 10+5
- II. Describe the methodology of study pollen grains from honey sample. Write down the requirements used in the study of *in vitro* pollen germination. 12+3
- III. Draw and describe the different types of stigma. 15
2. Answer any **ONE** question of the following: 10X1=10
- I. Describe the identifying features age of preservation and nature of the fossil genus- *Glossopteris* sp. and *Lepidodendron* sp. 5+5

[P.T.O]

- II. Describe the peel technique for the preparation of fossil slides. What is the practical application of peel technique? 5+5
