

M.Sc. 2nd Semester Examination, 2023

BOTANY

(Angiosperm Taxonomy and Biosystematics)

(Practical)

PAPER —BOT-295.1

Full Marks : 25

Time : 2 hours

Answer all questions

The figures in the right hand margin indicate marks

1. Draw dissect, display label and describe the parts of specimen 'A' in technical terms. Identify the family, genus and species with reasons.

(Dissection & display—1, Labeled sketches—2, Description—2, Floral Formula and diagram-2, Identification of family, genus and species
 $1 + 1 + 1 = 3$)

10

2. Identify the specimens B and C mentioning family, genus and species. $1\frac{1}{2} \times 2$
 3. Submission of Herbarium specimens and Laboratory Note book. 3 + 2
 4. Excursion/Field report/Record. 3
 5. Viva-voce. 4
-

M.Sc. 2nd Semester Examination, 2023

BOTANY

(Palaeobotany, Palynology and Pollination Ecology)

(Practical)

PAPER –BOT-295.2

Full Marks : 25

Time : 2 hours

Answer all questions

The figures in the right hand margin indicate marks

1. Write down the requirements needed for preparation of pollen slides through Erdtman's acetolysis technique (1960). 3
2. Draw and describe the pollen morphological characters (any two) from the supplied sample A. Write down the NPC of those available pollen grains. 2 + 4 + 1

(Turn Over)

3. Write down the identifying characters, type of preservation and age of preservation of the specimens B and C. $2\frac{1}{2} + 2\frac{1}{2}$
4. Comment on the supplied (specimen D) pollen morpho-type. 2
5. Practical Note Book. 4
6. Viva-voce. 4
-