

2018

CBCS

3rd Semester

BOTANY

PAPER—C5P

(Honours)

Practical

Full Marks : 20

Time : 2 Hours

Instruction for Examiners

1. For specimen 'A', Select any two specimens from the followings where normal primary or normal secondary growth present and supplied to the students alternately or separate batchwise.
 - (a) Stem—Sunflower (Dicot) and Dracaena (Monocot).
 - (b) Root—Tinospora (Dicot) and Arum (Monocot).

2. For specimen - 'B' select one specimen from xerophytes and other from hydrophytes from the following specimens and supplied to the students alternately.
 - (a) Xerophytes —
 - (i) Stem - Casuarina, Calotropis.

(ii) Root - Cactus.

(iii) Leaf - Nerium, Eucalyptus, Pinus needle, Phyllode of Acacia.

(b) Hydrophytes —

(i) Stem - Eichornia, Hydrilla.

(ii) Root - Eichornia, Typha.

(iii) Leaf - Nymplace, Typha.

3. Three specimens (C, D and E) should be selected from the following specimens or slides.

(i) One from stomatal types.

(ii) Lithocysts.

(iii) Tyloses.

(iv) Ring porous or diffuse porous word.

(v) Any one trichome.

(vi) Poriderm.

(vii) Lenticets.

4. Laboratory Note Books should be signed by the teachers.

5. Candidates are to be asked any questions related to practical and theoretical syllabus.

6. Practical scripts, to be evaluated immediately after examination and marks for the same to be submitted in time.

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The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer all questions

Anatomy of Angiosperms

1. Cut a thin T.S. of the specimen 'A' and prepare a temporary slide. Draw a labelled sketch of the preparation. Identify the specimen with reasons. Leave your preparation for examinations. 6

*(Section cutting-1, Drawing and labelling-2,
Identification-1, Anatomical reasons-2)*

(Turn Over)

2. Cut a thin T.S. of the specimen 'B' and prepare a temporary slide. Draw a labelled sketch of the preparation. Write the anatomical comments with respect to ecological study. Identify only the ecological type. Leave your preparation for examinations. 6

*(Section cutting-1, Drawing and labelling-2,
Anatomical Comments-2, Identification-1)*

3. Identify the specimens - C, D and E. with reasons. 3

(Identification-½, Reason-½)

4. Laboratory Note Books and slide. 2

5. Viva-Voce. 3
