2018

2nd Semester

BOTANY

(Honours)

PAPER—C4P

(Practical)

Full Marks: 20

Time: 2 Hours

The figures in the margin indicate full marks.

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

[Instructions to Examiners]

- For specimen 'A' Any two specimens should be selected from the following Bryophytes with their reproductive structures and supply alternately to the candidates of the same batch.
 - (a) Antheridiophore of Marchantia.
 - (b) Archegoniophore of Marchantia.

- (c) Only capsule of Anthoceros.
- (d) Only capsule of Funaria.
- 2. For specimen 'B' Any two specimens should be selected from the following pteridophytes with their reproductive structures and supply alternately to the candidates of the same batch.
 - (a) Strobilus of Selaginella.
 - (b) Strobilus of Equisetum.
 - (c) Leaf i.e. sporophyll of Pteris.
- For specimen 'C' One specimen should be selected either from the following bryophytes or from the following pteridophyte.

Bryophytes (Permanent slide)

- (a) V.S. of the thallus of Riccia.
- (b) V.S. of the thallus through gemma cup of Marchantia.
- (c) L.S. of the sporophyte of Pellia or Porella.
- (d) Whole mount of leaf.

Pteridophytes (Permanent slide)

- (a) T.S. of synangium of Psilotum.
- (b) T.S. of the stem of Selaginella.
- (c) T.S. of the stem of Equisetum.
- (d) T.S. of the rhizome of Pteris.

For specimen 'D'

One specimen should be selected from the following reproductive structure of gymnosperms.

- (a) L.S. of the ovule of Cycas.
- (b) L.S. of the male cone of Pinus.
- (c) L.S. of the female cone of Pinus.
- (d) V.S. of the ovule of Gnetum.

For specimen 'E'

One specimen should be selected from the following vegetative structure of gymnosperms.

- (a) T.S. of the leaflet of Cycas.
- (b) T.S. of coralloid root.
- (c) T.S. of the needle of Pinus.
- (d) T.S. of stem of Gnetum.

- 4. Candidates should submit the Laboratory note book, field note book duly signed by the teacher(s).
- 5. Separate loose sheets should be used for Q. No. 3.
- Practical scripts to be evaluated immediately after examination and marks of the same to be submitted in time.

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Illustrate the answers wherever necessary.

Answer all questions.

 Make a temporary preparation of the supplied specimen 'A'. Draw, label, describe and identify the genus of the specimen with reason.

[Preparation-1, Drawing & labelling-2, Description-2, Identification with reason-1]

2. Make a microscopic preparation of the supplied specimen B'. Draw, label, describe the reproductive structure and identify the genus of the specimen with reason. 6

[Preparation-1, Drawing & labelling-2, Description-2, Identification with reason-1]

- Identify the Genera of the specimen 'C', 'D' and 'E' with reasons.
- 4. (a) Laboratory Note Book.
 - (b) Field Note Book.
- 5. Viva-voce.