

2018

2nd Semester

BOTANY

(Honours)

PAPER—C3P

(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]

1. Any one of the fungal specimens (A) to be supplied to the candidate from *Rhizopus*, *Penicillium*, *Ascobotus* and *Agaricus*.
2. For identification permanent slides / Models / Photographs of the following specimens to be provided for 'B' and 'C' Coenocytic / Septate Mycelium, Asexual stage /

(Turn Over)

Zygospor of *Rhizopus*, *Penicillium* sp with conidiophore and conidia / sexual stage from Photographs, *Alternaria* Photograph, Growth forms of lichens (Crustose / Foliose / Fruticose), *Phaneroplasmodium* Actual Specimen / Photograph, *Agaricus* v.s. of gills, ectomycorrhiza / Endomycorrhiza (Photographs), Uredospore / Teleutospore of *Puccinia*. For Specimen 'D' - Herbarium Specimens / Photographs of citrus canker, Early Blight of Potato, Black Stem Rust of Wheat and White Rust of crucifers, vein clearing by TMV.

3. Candidates should submit Laboratory Note Book duly signed by the teacher(s).
4. Viva-Voce on the subject covered in practical syllabus to be made by examiner(s).
5. Practical Answer-scripts to be evaluated immediately after examination and marks for same to be submitted in time.
6. Additional pages, if supplied, must be endorsed by the concerned examiner(s).

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Illustrate the answers wherever necessary.

Answer all questions.

1. Make a microscopic preparation of specimen 'A' following single staining procedure. Draw, label and identify the specimen with comments. Name the genus only. Leave your preparation for examination. 9

*[Staining and Mounting—2, Labelled diagram—3,
Comment—3, Name of genus—1]*

2. Identify the specimens B, C & D with reasons. 2×3

[Reasons- $1\frac{1}{2}$, identification- $\frac{1}{2}$]

3. Submission of Laboratory Note Book. 2

4. Viva-voce. 3
