

2017

BOTANY

[Honours]

(CBCS)

(Practical)

PAPER – C1P

Full Marks : 20

Time : 2 hours

Answer all questions

The figures in the right hand margin indicate marks

1. Make a gram staining (sample A₁)/Endospore staining of (sample A₂) of supplied specimen. Draw and make a comment on the observation. **6**
(Staining : 2, Drawing : 2, Comment : 2)

2. Make a temporary preparation of supplied sample B. Draw, describe and identify the sample upto genus. 6
(Preparation : 1, Drawing : 2, Description and identification : 2 + 1)
3. Identify the models/micrographs with reasons (Specimen C, D and E). 1 × 3
4. Submission of laboratory Note Book. 2
5. Viva-voce. 3

[Instructions for Examiners]

1. Supply either a gram positive or a gram negative bacteria(Sample A₁) or supply an Endospore forming bacteria of the genus *Bacillus* (Sample A₂).

Any one among Gram staining or Endospore staining may be per formed by the candidate. Appropriate option to be selected by examiner(s).

2. Any one of the algal specimen(B) to be supplied to the candidate among *Nostoe*, *Volvox*, *Oedogonium*, *Coleochate*, *Chara*, *Vaucheria*, *Ectocarpus*, *Fucus* and *Polysiphonia*.
3. For identification models/micrographs of following specimens to be provided.
T-phage virus, TMV virus, Lytic cycle, root nodule, Conjugation, binary fissions, *Chlamydomonas*, Prochloron.
4. Candidates should submit Laboratory note book duty signed by the teacher(s).

5. **Viva-voce on the subject covered in practical syllabus to be made by examiner(s).**
 6. **Practical Scripts to be evaluated immediately after examination and marks for the same to be submitted in time.**
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