

2018

CBCS

1st Semester

BOTANY

PAPER—C1P

(Honours)

(Practical)

Full Marks : 20

Time : 2 Hours

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.

Attempt the following questions according to direction.

Answer all questions.

1. Make a Gram staining of the supplied bacteria and comment on its Gram nature. 6

[Principle : 1, Work : 2, Drawing : 2, Comments : 1]

2. Identify the supplied microscopic specimen after studying its reproductive structures. 6

*[Preparation : 1, Characterization : 2, Drawing : 2,
Identification : 1]*

3. Identify the specimen C, D and E with at least two characters. 3

[Characterization : $\frac{1}{2}$, Identification : $\frac{1}{2}$] $\times 3$

4. Laboratory Note Book. 2

5. Viva-Voce. 3
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Instruction for Examiners

1. For question No. 1.

(a) Gram positive specimen : *Bacillus* or Card sample
Lacto bacillus.

(b) Gram negative specimen : *Escherichia coli.* to be
provided. (24 hours active culture)

2. For question no. 2

Coleochaete, Chara, Ectocarpus, Polysiphonia any one
sample to be supplied.

3. For identification (any Three) :

Electron micrograph of

- (a) T-phage
- (b) TMV
- (c) Endospore
- (d) *Chlamydomonas*
- (f) *Volvox*
- (g) *Vaucheria*
- (h) Prochloron

and permanent slide of

- (a) Root nodule
- (b) Endospore
- (c) Binary fission
- (d) Nostoc
- (e) Coleochaete
- (f) Tetraspore of polysiphoria
- (g) Globule of chara

to be provided.
