

2018

CBCS

1st Semester

BOTANY

PAPER—GE1P

(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 suitable microscopic preparation of specimen 'A'.
Draw and comment on your observation. 6

[Slide-preparaton : 2, Drawing : 2, Comment : 2]

2. Make a suitable vegetative/reproductive slide preparation of the sample 'B'. Comment on the observation. Identify the genus. 6

[Preparation : 2, Comment : 3, Identification : 1]

3. Identify the specimen 'C', 'D' and 'E' from following permanent slides with reason. 1×3

4. Laboratory Note Book 2

5. Viva-Voce 3

- Models of viruses—T-phage and TMV
- Lytic and lysogenic Cycles
- Types of bacteria
- Binary fission of baccteria
- Conjugation of bacteria

(D) (i) *ALGAE*

Nostoc spp.

Chlamydomonas spp.

Oedogonium spp. : Antheridis/Dwarf

Fuss spp. : with sex-organ (macroscopic)

(ii) *FUNGI*

Penicillium spp. : Condiophores / Conidia

Alternaria spp. : Conidia

Puccines spp. : Herbarium specimen of Black Stem Rust of wheat.

(E) (i) *Bryopyte*

Marchantia spp. : Thallus structure with Rhizoida, Scales , Gemma cup

(ii) *PTERIDOPHYTES*

Selagivella spp. : T.S. of stem, whole plant with rhizophore.

Equisetum spp.: T.S. of Stem/Internodes

(iii) GYMNOSPERMS

Cycas spp.: Male cone, T.S. of Coralloid Root.

Pinus spp. : L.S male cone / L.S of Female cone

4. Laboratory Note Book should be properly signed by the concerned teachers.
5. Examiners should ask any question related to practical.

Note : Questions 1, 2, 3 should be selected without repetition of any genus.

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- Lytic and lysogenic Cycles
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