

OLD

Part II 3-Tier

2017

BOTANY

(Honours)

PAPER—V

(PRACTICAL)

Full Marks : 100

Time : 6 Hours

The figures in the right-hand margin indicate full marks.

Answer all questions.

1. Prepare a fixed smear of the specimen 'A' and stain it suitably following Gram staining procedure. Observe under oil immersion objective to draw, label and comment on the specimen of your preparation.

10

*(Preparation of the smear—1, Staining—3,
Drawing—3, Labelling—1, Comment—2)*

(Turn Over)

2. Work out the morphology of specimen 'B' and give 'drawing prism-aided' sketches with labelling and magnification. Identify the genus with reasons. Leave your preparation after wax sealing.

12

(Drawing prism aided sketches and magnification with label—7 (3+2+2), Identification—1, Reasons—2, Preparation—2)

3. Work out the morphology of specimen 'C' and describe the specimen with labelled diagrams. Measure the reproductive structure. Identify the genus with reasons. Leave your preparation after wax-sealing.

12

[Labelled sketches—2, Measurement of reproductive structures (Standardization of Microscope—2, Measurement of Reproductive parts—2), Description—3, Identification—1, Reasons—1, Preparation—1]

4. Make a suitable preparation of specimen 'D'. Draw, label and describe the specimen. Identify the genus with reasons. Leave your preparation.

10

[Sketches—2, Labelled sketches—1, Description—3, Identification—1, Reasons—2, Preparation—1]

5. Draw, label and describe the specimen 'E'. Identify the genus with reasons. Leave your preparation.

10

*[Sketches—2, Labelled sketches—1, Description—3,
Identification—1, Reasons—2, Preparation—1]*

6. Draw a card from the lot and perform the work accordingly as written on the drawn card (F).

5

*[(Requisition—2, Demonstration—3), / (Label drawing—2,
Identification with reason—2, Preparation—1)]*

7. Identify and comment on the specimen 'G', 'H', 'I', 'J' and 'K'.

10

[Identification— $\frac{1}{2}$, Comment— $1\frac{1}{2}$]

8. Laboratory note books.

10

*(Algae, Fungi—3, Plant Pathology, Microbiology—3, Bryophyta,
Pteridophyta, Gymnosperm, Palaeobotany—4).*

9. Submission of preserved or dry specimen.

5

10. Tour report.	4
11. Submission of slides.	2
12. Viva-voce.	10
