

2019
Part – II
BOTANY
(Honours)
Paper – V
(Practical)

Full Marks – 100

Time : 6 Hours

*The figures in the right-hand margin indicate marks.
Candidates are required to give their answers in
their own words as far as practicable.*

***Result must be recorded in tabular form
as far as possible.***

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.

Preparation of the Smear	1
Staining	3
Drawing	3
Labelling	1
Comment	2

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. 10
- | | |
|---|---|
| Work out | 2 |
| Camera lucida drawing
[with magnification] | 3 |
| Description | 3 |
| Identification | 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. 10
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|--|---|
| Labelled sketches | 2 |
| Measurement of reproductive
structures [standardization of
microscope] | 2 |
| Measurement of reproductive parts | 2 |
| Description | 2 |
| Identification | 1 |
| Preparation | 1 |

4. Draw a card from the lot and perform the work accordingly as written on the drawn card (D). 5

Requisition	2
Demonstration	3

Or

Label drawing	2
Identification with reason	2
Preparation	1

5. Make a suitable preparation of specimen 'E'. Draw, label and describe the specimen. Identify the genus with reasons. Leave your preparation. 10

Dissertation and mounting	2
Labelled sketches	2
Description	3
Identification	1
Reasons	2

6. Make a suitable preparation of specimen 'F'. Draw, label and describe the specimen. Identify the genus with reasons. Leave your preparation. 10

Dissection and mounting	2
Labelled sketches	2
Description	3
Identification	1
Reasons	2

7. (a) Dissect and display the morphological parts of the specimen 'G'. Give labelled sketches of the parts displayed and give detail description. 8
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|--------------------------|---|
| Dissertation and display | 2 |
| Labelled sketches | 3 |
| Description | 3 |
- (b) Comment with reasons on the types of specimen 'H' and 'I'. 2+2
8. Identify and comment on the specimen 'J', 'K' and 'L'. 2×3=6
9. Submission of preserved or dry specimen. 5
10. Laboratory Note Books : 7
- (i) Microbiology, Algae
 - (ii) Fungi, Plant pathology
 - (iii) Bryophytes, Pteridophytes, Morphology
11. Tour report + Slide 3+2
12. Viva-voce 10
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