NEW

Part-III 3-Tier
2018
BOTANY
(Honours)
PAPER-VIII
(PRACTICAL)

Full Marks: 100

Time: 6 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.

1. (a) Perform two physilogical experiments as indicated in (1a, 1b) in the card to be drawn from a lot. Wrrite in brief the experimental procedures, results and inferances.

[(for a : Requisition-2; Setup-2; procedure-5; Result-4; inference-2)

(for 1b : Requisition-1; setup-1; procedure-1; Result & Comments-2)

2. (a) Perform the qualitative / quantitative (Sample: M), tests as indicated in the card drawn from a lot.10

[(Requisition-2; Procedure-3; Result-3; Inference-2;]

3. Calculate the segregation ratio of the sample 'O', determine the "Goodness of fit' from the specimen supplied.

[(Calculation-6; Conclusion-2:]

4. Make a suitable stained squash preparation of the pretreated and fixed root tip material 'N'. Determine the mitotic index of the specimen supplied. Draw, label and count the chromosome from a scattered metaphase plate.

[Squash preparation—3; Calculation (mitotic index)—5; preparation of metaphase plate—3; Drawing and labelling—3; Chromosome count—1;

5. Demonstrate the plant breeding experiment as mentioned in the card to be drawn from a lot. Write the experimental procedure in brief.

[Demonstration-3; Procedure-3; ]

 Submit the bound and duly signed of your dissertation work (maximum 40 pages) prepared by you and present the same (3-5 min).

[Submission—6; Presentation—4; Discussion on presentation—5; ]

7. Identify the slides 'P', 'Q' and 'R' with necessary comments.

[Identification--1; Comment--1; ]

8. Laboratory Note Book.

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9. Viva-Voce.

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