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UG/5th Sem/BOT(H)/Pr/19

2019

B.Sc. (Honours)

5th Semester Examination

BOTANY

Paper - C12-P

(Plant Physiology)

(Practical)

Full Marks : 20

Time : 3 Hours

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

Answer *all* questions.

Choose 2 experiments by drawing cards from a lot of cards and perform the following experiments.

(Choose 1 experiment from the following for Question number 1 and another for Question number 2)

1. (a) Determine the osmotic potential of plant cell sap by plasmolytic method.

[Turn Over]

(2)

- (b) Determine the water potential of given tissue (potato tuber) by weighing method.
- (c) Calculate the stomatal index and stomatal frequency of a leaf (mesophyte / xerophyte).

$$2+3+4+1=10$$

[Requisition - 2 ; Procedure - 3 ; Result - 4 ; Conclusion - 1]

- 2. (a) Demonstrate the suction due to transpiration.
- (b) Demonstrate the rooting from cuttings.
- (c) Demonstrate the bolting experiment. $2+2+1=5$

[Requisition - 2 ; Procedure - 2 ; Result - 4 ; Conclusion / inference - 1]

- 3. Laboratory Note Book. 2
 - 4. Viva-voce. 3
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(Instructions to the Examiners)

Full Marks : 20

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in their own words as far as practicable.*

1. For Question number 1, choose any one from the questions a, b, c.

Distribution of marks :

(2 - Requisition, 3 - Procedure, 4 - Result, 1 - Conclusion or inference)

2. For question number 2, choose any one from the questions a, b, c.

[Turn Over]

(2)

Distribution of marks :

(2 - Requisition, 2 - Procedure to be demonstrated before the expert(s), 1 - Inference)

N.B. : Use separate answer scripts for requisition after choosing the experiments by cards drawn from a lot, if not suitable candidates can draw 2nd time from a lot for experiments.

3. Preference may be given to the candidate having nicely presented data in practical note book with teacher's regular signature.
 4. Viva-voce (It must be done within the syllabus).
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