

BIOLOGY
PAPER - 2
(PRACTICAL)

(Maximum Marks: 30)

(Time allowed: Three hours)

*(Candidates are allowed additional 15 minutes for **only** reading the paper.
They must **NOT** start writing during this time.)*

*Answer **all** questions.*

All working including rough work should be done on the same sheet as the rest of the answer.

The intended marks for questions or parts of questions are given in brackets]

Note: Q4 (Spotting) is to be attempted on a separate continuation sheet. The continuation sheet is to be handed over to the Supervising Examiner after the last observation. This continuation sheet should be attached to the main answer booklet of the candidate after the examination.

Question 1

[5]

- (a) Observe the given specimen **D-41** carefully. Describe its floral characteristics in semi-technical terms. (Details of individual whorls are not required.)
- (b) With a sharp razor blade, cut a longitudinal section of a flower of the specimen **D-41**. Place one of the cut surfaces on a moist filter paper so that all the parts are clearly visible. **Show it to the Visiting Examiner.**
- (c) Draw a neat and labeled diagram of one of the cut surfaces.

With the hand lens provided, carefully observe the stamens. Record your observations in a tabular form as shown below:

Androecium:		D-41
(i)	Relationship of stamens to petals	
(ii)	Relationship of stamens with each other	
(iii)	Type of attachment of the anther to the filament	

- (d) Separate one stamen from the cut surface of specimen **D-41** and make its labeled diagram.

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