

life of the plant. Those who have given serious thought to the subject, and who are watching the trend in the teaching of Botany in other lands will, we are sure, give unqualified assent to this view.

FORM I.—BOTANY.

A.

1. Using the key, beginning with the first line ("Series I., Phanerogams"), copy every step taken in the identification of the plant figured on page 2.

2. Trace to its species the Composite figured on page 3. Beginning with the sub order, copy every step.

B.

NOTE.—The Presiding Examiner will tell you which specimen to use in answering question No. 3, and which to use in answering question No. 4. *Use definite botanical phraseology in the descriptions.*

3. (a) Refer the plant submitted to its natural order, arranging the characters upon which you base such reference under the headings: Leaves, Calyx, Petals, Stamens.

(b) Name the genus of the plant.

(c) Name another genus of the same order, and state how it may be distinguished in at least three particulars from this one.

(d) Describe the mode and subdivision of the inflorescence, and

(e) The position, arrangement, and surface of the leaves.

4. On a sheet of paper laid sideways, occupying the whole page, draw a schedule as below for the description of the flower submitted. (See note above.)

Organs.	No.	Cohesion.	Adnation. (Adhesion)	Drawings.	Floral Diagram
Calyx Sepals					
Corolla Petals					
Stamens Anthers Filaments					
Pistils Stigmas Styles Carpels					

5. On a sheet of paper, laid as for No. 4, rule as below and fill with appropriate entries.

(1)	(2)	(3)	(4)
Name of Order.	Character from which the Name of the Order is derived.	The Name of a Plant in the Order.	Drawing, with verbal description, if necessary, of the parts of the Plant named in column 3 which is referred to in column 2.
Cruciferae			
Leguminosae			
Umbelliferae			
Cupuliferae			
Coniferae			

6. Describe (not name merely):

(a) Any character which separates the Liliaceae from the orders named in No. 5; and

(b) A character which separates them (the Liliaceae) from the grasses.

7. State and account for two of the general differences which you have observed between herbaceous plants growing in situations fully exposed to sun and wind and those growing in sheltered, shady situations.