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36. Enumerate the chief nitrogenous and non-nitrogenous substances which are found in plants.

37. Fill in the accompanying Floral Schedule with a full and accurate description of the specimen under observation.

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1. Describe the germination of a plant.

2. Explain the differences in the structure of the embryo.

3. Explain the functions of the Root.

- 4. Describe the structures in a leaf, and explain their action on the air.
- 5. Mention the several parts of the stamen and the pistil, and explain their uses.

6. Describe an Achene, a Samara, a Drupe, and a Silique.

- 7. Describe the differences in the stems of Exogens and Endogens, and the relations of these to the other parts of the plant and to classification.
 - 8. Explain the terms Genera, Species, Order.
 - 9. Where we excurrent stem, an axillary bud, bud scales?
- 10. Explain the terms primordial utricle, parenchyma, protoplasm, as used in Botany.
 - 11. What are the functions of the nucleus in a living cell?

12. Explain the movements of the sap in plants.

- 13. Describe the appearance under the microscope of raphides, spiral vessels, and disc-bearing wood-cells.
 - 14. Describe the structure of the bark of an Exogen.

15. Describe freely the anatomy of a leaf.

- 16. Describe shortly the parts and structures denoted by the following terms: spine, aërial root, phyllodium, cambium, stipule, rhizoma.
- 17. Give examples of phænogams, cryptogams, exogens, and endogens, properly arranged.
 - 18. Describe the principal forms of indeterminate inflorescence.
- 19. In what natural families do we find siliques, didynamous stamens, labiate corollas, or pappus-bearing achenes. Describe these structures.
- 20. State the characters of any Canadian exogenous order, with examples.
 - 21. Describe the cell-walls in a living parenchymatous cell.
 - 22. Describe the fibro-vascular tissues in an Exogenous stem.
- $23.\ Describe the appearance of stomata and glandular hairs under the microscope.$
 - 24. Define prosenchyma, corm, cyclosis, thallus.