

Bago University
Department of Botany
First Semester Examination, March, 2019

Third Year (B.Sc.)
Botany Specialization
Answer All Questions

Bot.3105
Floristics and Herbarium Techniques
Time allowed: (3) Hours

I. Determine whether each statement is TRUE or FALSE.

(10 marks)

1. Floristic studies are taxonomic studies of a flora.
2. A synopsis is a record, usually in the format of a key.
3. *Amborella trichopoda* is a monoecious, tropical shrub.
4. In the family Araceae, the roots are often mycorrhizal, without root hairs.
5. The subfamily Papilionoideae are trees, shrubs, vines, or herbs with exstipulate.
6. Measure several similar structures when measurements are used in the key.
7. Plant collections are at least four ways of handling fresh plant specimens.
8. Some of the orchids have large flowers with fleshy sepals of unusual shapes.
9. The pineapple family has plant body with rosette leaves that are large and non-succulent.
10. Labels are glued by one edge to the upper right corner of the specimen sheet.

II. Write correct word to complete the following sentences.

(10 marks)

1. Keys are devices useful in ----- an unknown.
2. Each species is given a formal scientific name in -----.
3. The APG classification system based on DNA sequence data from one or more -----.
4. In family Orchidaceae, the roots are typically with a multilayered -----.
5. The family Asteraceae consist of ----- capitulum contains all hermaphrodites.
6. Key in the traditional sense is a type of ----- literature.
7. The camera lucida will capture the shape and manner of ----- of a tree.
8. Plant specimens are ----- for experimental investigation.
9. Each specimen-bearing fold is enclosed between two driers, ----- paper.
10. The specimen store only in insect-resistant -----.

III. Answer all questions.

(10 marks)

1. Define identification.
2. Mention the phylogenetic classification.
3. Tabulate the orders and families of the basal families.
4. What is drying press organization?
5. Give two problems concerning with pressing of the herbarium specimen.

IV. Answer all questions.

(20 marks)

1. Classify the term non-indigenous plants.
2. Briefly explain the characters of family Acanthaceae.
3. Give a comparison chart used in the construction of keys.
4. How to press herbaria specimens for grass and sedges?

V. Answer any three questions.

(30 marks)

1. Give complete account on world floras and manuals.
2. Describe the family characters of Orchid family.
3. How would you differentiate the family characters between Cyperaceae and Poaceae.
4. Define bracket or parallel key and list the suggestion for the use of keys.
5. Enumerate the recording data for preparing effective herbarium specimen.