

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

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

Bot.3101
Medicinal Plants
Time allowed: (3) Hours

I. Determine whether each statement is TRUE or FALSE.

(10 marks)

1. Unofficial drug are not listed and described in standardized books.
2. Flowers and plant parts containing volatile oil must be dried rapidly.
3. Triterpenoid saponin are rare in dicots, abundant in many monocots.
4. Cellulose and other polysaccharides are contains all parts of plants.
5. The lemon juice contains only citric acid 5-10%.
6. Pharmacological action of Myin- hkwa is tonic, diuretic and local stimulant.
7. The roots of Kun are used in treating rheumatism.
8. Tamarind kernel contains monosaccharides.
9. Ephedrine is used for the relief of asthma and hay fever.
10. Caffeine does not precipitate like most glycoside.

II. Write correct word to complete the following sentences.

(10 marks)

1. Seeds should be collected when all seeds ripen and before the fruit -----.
2. Glycosides are non-reducing substance which on hydrolysis by reagents or -----.
3. Fixed or fatty oils and fats are substances of either ----- or animal origin.
4. Antibiotics inhibit the vital processes of certain -----.
5. *Catharanthus roseus* L. (thinbaw-mahnyo) is belongs to the family -----.
6. The scientific name of garlic is ----- L.
7. The green fruit of thin-baw is a laxative and -----.
8. The extract and essential oil of *P. nigrum* is used to be ----- and antifungal.
9. The mycelium of penicillium is ----- fashion.
10. Ephedrine is odourless and taste is -----.

III. Answer all questions.

(10 marks)

1. Write notes on Triterpenoid saponins.
2. Briefly describe morphological characters of shauk.
3. Clarify the pharmacological action of sa-ga-gyi.
4. Give the historical characters of Nga-yoke kaung.
5. Describe the medicinal uses of *Marchantia*.

V. Answer all questions.

(20 marks)

1. What are the two types of saponins and explain them?
2. What do you understand theresins and explain the hard resins?
3. Write short notes on medicinal properties and uses of na-nwin.
4. State the chemical constituents of castor oil plant.

V. Answer any three questions.

(30 marks)

1. Enumerate the minimum requirements for standardization and describe any six of them.
2. Define the alkaloids and describe the test for alkaloids.
3. Why the antibiotics are important to human with examples of drugs?
4. Explain the pharmacological action and medicinal properties of Myin-hkwa.
5. Discuss a brief description of *Aloe vera*.