

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

Forth Year
Botany Specialization
Answer All Questions

Bot.4102
Pharmacognosy
Time allowed: (3) Hours

I. Determine whether each statement is TRUE or FALSE.

(10 marks)

1. Lichen dyes were formerly much used in the textile industry.
2. Budding is largely used for *Citrus* species.
3. Gibberellins are synthesized in flower.
4. All part material used should be properly authenticated.
5. Tolu contain about 80% of resin derived from gums alcohols.
6. Phlobaphenes give the characteristic blue colour.
7. Flavonoids dissolve in alkali.
8. Eucalyptus oil is used as the inhalations.
9. The stomata may be entirely confined to the upper epidermis.
10. Microscopes are usually fitted with two objectives.

II. Write correct word to complete the following sentences.

(10 marks)

1. Ethanobotany is the study of the uses of plants by ----- groups.
2. The coconut palm needs a ----- climate.
3. When vegetable drugs are incinerated, they leave an ----- ash.
4. Dried materials are usually powdered before -----.
5. Alcohols possess one or more ----- groups.
6. Various monosaccharides arise from the ----- cycle.
7. Anylopectin and amylose are ----- granules.
8. Liquorice owes most of its ----- taste to glycyrrhizin.
9. Simple fruits are formed from a ----- its one pistil.
10. Silica is insoluble in all acids except -----.

III. Answer all questions.

(10 marks)

1. Write short note on the imperative of source material.
2. What are quantitative chemical tests for fixed oils.
3. Define alanine, valine and leucine.
4. List the useful tests for sugar and other carbohydrates.
5. Give the outline of powder barks..

IV. Answer all questions.

(20 marks)

1. Define Thallophyte and describe the position of main families found in pharmaceutical interest.
2. Briefly explain the role of auxins.
3. Mention the sampling of crude drugs.
4. Compare the characters of Jute, Hemp and Flax fibres.

V. Answer any three questions.

(30 marks)

1. Explain the day length and radiation characteristics for production of crude drugs.
2. Discuss the preliminary examination of crude drugs.
3. Write detail about the extraction of plant materials.
4. Describe the production and uses of volatile oils.
5. Write an account on the suberized and cutinized wall.