

UNIVERSITY OF JAFFNA, SRILANKA
 BACHELOR OF PHARMACY
 SECOND YEAR FIRST SEMESTER EXAMINATION – OCTOBER 2019
 PHACG 2154 PHARMACOGNOSY

DATE: 08.11.2019

TIME: 02 Hours

Answer all eight questions.

Answer parts 'A' and 'B' in separate booklets.

PART - A

1.
 - 1.1. List the pest control methods. (10 Marks)
 - 1.2. Write down the characteristics of an ideal pesticide. (40 Marks)
 - 1.3. Classify and explain insecticides based on their action. (50 Marks)

2.
 - 2.1. Write down the biosynthetic pathways involved in the production of secondary metabolites in higher order plants. (15 Marks)
 - 2.2. Briefly explain the steps involved in the synthesis of fatty acid in plants. (85 Marks)

3.
 - 3.1. Define the followings.
 - 3.1.1. Marine pharmacognosy (15 Marks)
 - 3.1.2. Nutraceuticals. (15 Marks)
 - 3.2. Classify and explain nutraceuticals. (70 Marks)

4.
 - 4.1. What is meant by adulteration? (10 Marks)
 - 4.2. *Glycyrrhiza glabra* is adulterated with wild liquorice. Identify the type of adulteration. (20 Marks)
 - 4.3. What are the medicinal uses of liquorice? (20 Marks)
 - 4.4. Explain the different diagnostic features of leaves used in quantitative microscopy. (50 Marks)

PART - B

5.
 - 5.1. List four (04) physical parameters that are used in the analysis of lipids. (10 Marks)
 - 5.2. Describe the preparative method of peppermint oil from *Mentha Piperita* Linn. (40 Marks)
 - 5.3. List the pharmaceutical uses of turpentine oil. (20 Marks)
 - 5.4. Define the following.
 - 5.4.1. Acetyl value (15 Marks)
 - 5.4.2. Ester value (15 Marks)

- 6.
- 6.1. Differentiate the organized drug from unorganized drug. (40 Marks)
 - 6.2. Write down the biological source, collection method, chemical constituents and uses of Benzoin. (60 marks)
- 7.
- 7.1. What are phytohormones? (10 Marks)
 - 7.2. List and explain the main functions of five (05) native plant growth regulators in plant growth. (60 Marks)
 - 7.3. List the uses of plant growth regulators in the cultivation of medicinal plants. (30 Marks)
8. Write an account on followings.
- 8.1.1. Trypsin (50 Marks)
 - 8.1.2. Pepsin (50 Marks)