



**RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES, MIHINTALE**

**B.Sc. (General) Degree in Applied Sciences
First Year – Semester II Examination – April /May 2015**

BIO 1207 – PLANT ANATOMY

Time: Two (02) hours

Answer any four (04) questions.

Illustrate your answers with labeled diagrams where appropriate.

1. a) What is meant by an intercalary meristem? Give an example for intercalary meristem and state its function.
b) Define anomalous secondary growth in plants. Using appropriate examples and illustrations, describe any two types of anomalous secondary growth found in angiosperms.
c) State any three functions of pericycle in plants.
2. Write short notes on the following.
 - a) Glandular epidermal hairs and their functions
 - b) Types of stomata found in angiosperms
3. a) Differentiate a **circular** leaf from a **unifacial** leaf.
b) Give botanical names of three commercial fiber yielding plants and name the respective plant part.
c) What are the functions of sclerenchyma in plants? Support your answer with examples.
4. Giving appropriate examples, describe how a person employed in a herbal drugs production company could use the knowledge gained in Plant Anatomy course, to maintain high standards of the end products with reference to the use of appropriate herbal ingredients.
5. a) "The structure and location of different tissues in a typical angiosperm leaf are related to their functions." Comment on this statement.
b) State two occasions in which the structure has deviated from what is described in 5 (a) and explain their importance to the plant.
