



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

**B.Sc. (General) Degree in Applied Sciences
Second Year – Semester II Examination – April /May 2016**

BIO 2207 – ECONOMIC BOTANY

Time: Two (02) hours

Answer any four (04) questions.

1. Evaluate the role of family Fabaceae in Sri Lankan economy, stating at least 20 uses and/or importance, highlighting the plant source involved in each case. (100 marks)
2. a) Outline briefly the classification of fibres according to their commercial usage. (25 marks)
- b) "Family Malvaceae plays a vital role in world plant fibre industry and traditional household fibre usage in Sri Lanka." Justify. (75 marks)
3. a) Vegetables consist of a very heterogeneous group. Briefly outline the heterogeneity. (30 marks)
- b) Two plant families, Solanaceae and Cucurbitaceae stand out as especially important in providing the world with fruit vegetables. Emphasize, stating appropriate examples. (70 marks)
4. a) Write a concise account on the various methods of extraction of essential oils from plant tissues, giving at least two plant sources in each case. (40 marks)
- b) "Spices are promising sources of essential oils." Discuss briefly. (60 marks)
5. a) State the various processing practices of rice (*Oryza sativa*) from harvesting paddy to ready-to-cook state; and discuss the fate of the parts of floret and the parts of grain of rice during each processing practice. (70 marks)
- b) Discuss briefly the effects of processing on nutritional status of edible rice. (30 marks)