

**UNIVERSITY OF RUHUNA**

**BACHELOR OF SCIENCE (GENERAL DEGREE) LEVEL I (SEMESTER II)**

**EXAMINATION – December 2016**

**SUBJECT: BOTANY**

**Time: 1 hour**

**Course unit: Plant Systematics (BOI 1221)**

**Answer two questions including question No. 1**

(1)

- i) Write the steps followed to identify an unknown plant **(10 marks)**
- ii) Who are creditable for introducing the following **(10 marks)**
- Synonyms -
  - Binomial nomenclature -
  - Establishment of Kew gardens
  - Numerical taxonomy -
  - Molecular systematic -
- iii) Explain the necessity of having scientific names instead of vernacular names? **(30 marks)**
- iv) Give five species and five generic names used in plant nomenclature that are derived from different sources. **(20 marks)**
- v) List the **principles** used in International Code of Botanical Nomenclature (ICBN). **(10 marks)**

vi) Fill in the table giving botanical names.

(20 marks)

Vegetables	Medicinal or toxic plants
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.

2.

a) Explain the contribution of Carolus Linnaeus to plant system

(50 marks)

b) Describe the importance of Plant Systematics in two different fields.

(50 marks)

3. Write short notes on:

(100 marks)

a) Historical development of Sri Lankan Flora after the independence

b) Use of morphological and anatomical data for classification of plants

c) Classification of the Angiosperm Phylogeny Group (APG)