

UNIVERSITY OF RUHUNA

**BACHELOR OF SCIENCE (SPECIAL DEGREE) LEVEL I/II (SEMESTER I) EXAMINATION
July 2014**

SUBJECT: BOTANY

COURSE UNIT: BOT4181 (Herbarium Methodologies)

Time: **1 hr**

Question No.	Marks
Q ₁	
Q ₂	
Total	

Answer all questions

Index No:

1

- i) What is a botanic garden? **(10 marks)**

- ii) Fill in the table giving 5 top herbaria in the world **(15 marks)**

Name of the Herbarium	City/country

- iii) How herbarium specimen folders could be organized? (10 marks)
- iv) Mention the different types of herbaria (10 marks)
- v) To collect a plant sample for a herbarium which tools are needed (10 marks)
- vi) Which information should always include on a herbarium specimen (10 marks)
- vii) Mention the three main functions of a herbarium (15 marks)
- viii) What is a spirit collection? (20 marks)

2. Write short note on (100 marks)

i) Importance of herbaria

ii) Mounting of a plant specimens

iii) Botanical gardens in Sri Lanka

“Herbarium specimens are used for a variety of purposes” Discuss the statement

(4 x 5 =20 marks)

Study and teaching - To function as an indispensable teaching tool, in particular to botany students, but also to the university at large, serve as vouchers for seed collections, toxicological cases, biochemical analyses and biodiscovery, are the reference point for the application of the scientific names

Research - To act as a secure repository of valuable voucher specimens linked to the research outputs of the university's staff and students, allow and support accurate identification of plants, algae, lichens and fungi, provide a permanent record for a species occurring at a particular time and place, provide the basic biological material for taxonomists, ecologists and other researchers

Awareness etc. - to maintain a scientifically curated collection of plant specimens representative of a country, province, engendered spp., distribution of plant materials for horticulture etc.

Others - form the basis of reliable distribution, habit and habitat information, document the introduction and spread of invasive weeds over time, •