

THE OPEN UNIVERSITY OF SRI LANKA
B.Sc./ B. Ed. DEGREE PROGRAMME - LEVEL 04
BTU 2103 / BTE 4103 –SYSTEMATICS OF PLANTS AND ANIMALS
FINAL EXAMINATION - 2013/2014



DURATION – TWO (02) HOURS

Date: 30th June 2014

Time : 1.00- 3.00 pm

Answer any four (04) questions selecting from both Part A and Part B.
Answers to the questions in PART A and B should be written in separate Answer Books.

PART A

01. Write an essay on the importance and the types of taxonomic characters which can be used in classification of plants.
02. Differentiate between the following pairs.
 - i. Taxonomy and Systematics
 - ii. Artificial and Phylogenetic classification of plants
 - iii. Effective publication and valid publication
 - iv. Stenoplasticity and Euryplasticity
 - v. Phyletic speciation and True speciation
03. Write short notes on **any three (03)** of the following.
 - i. Principles of the International Code of Botanical Nomenclature (ICBN).
 - ii. Classification system of Cronquist
 - iii. Ethics involved in collection, borrowing and exchanging in plant materials
 - iv. Citation of author and the dates in plant nomenclature.

PART B

04. a) What is the binomial system of nomenclature?
 b) Citing examples, discuss the advantages and disadvantages of using scientific names over common names for plants and animals.
05. Explain how the Numerical Taxonomy is used in a systematic study.
06. a) What is speciation?
 b) Briefly explain how speciation occurs?

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