

THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. / B. Ed. DEGREE PROGRAMME – LEVEL 4
BTU 2103 / BTE 4103 – SYSTEMATICS OF PLANTS AND ANIMALS
FINAL EXAMINATION 2011/ 2012



DURATION – TWO (02) HOURS

Date: 13th January 2012

Time: 1.30 – 3.30 pm

Answer any four (04) questions from Part A and B.

Answers for the questions from Part B, should be written in the additional answer book provided.

Part A

01. a. What is meant by classification of organisms?
 b. 'Classification systems are being subjected to change continuously'.
 Explain.
 c. Briefly explain why the plant classification system of Cronquist (1968) is
 considered more advanced than that of Linnaeus (1753).
02. Differentiate between the following pairs.
 - a. Effective publications and valid publications
 - b. Character and character state
 - c. Herbals and herbalists
 - d. Phyletic and true speciation
03. Write short notes on **any two (02)** of the following.
 - a. Logical steps involved in Numerical Taxonomy
 - b. Phenotypic variations in plants and animals
 - c. Author citation in botanical nomenclature

Part B

04. Discuss the importance of the International Code of Zoological Nomenclature (ICZN), with special reference to its selected provisions you have studied.
05. a. What is meant by binomial system of nomenclature?
 b. Citing examples, discuss the advantages and disadvantages of using scientific names over common names for plants and animals.
06. Outline the important ethical responsibilities of an animal taxonomist.