



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 – 2010/2011

DURATION – TWO (02) HOURS

Date: 07th January 2011

Time: 9.30 – 11.30 am

Answer any four (04) questions.

01.
 - a. What is meant by identification of a plant?
 - b. Citing examples, differentiate between taxonomic characters and character states used in plant identification.
 - c. Outline the stepwise procedure you would follow to identify a plant species collected from your home garden.
02.
 - a. Briefly explain the biological species concept.
 - b. Describe the ways by which new species originate in nature.
03. Write short notes on **any two (02)** of the following.
 - a. Objectives of a systematist
 - b. Principles of International Code of Botanical Nomenclature (ICBN)
 - c. Phenotypic variation in plants and animals
04. Describe briefly the different kinds of taxonomic characters used for classification of animals.
05. Write a concise account on ethics in taxonomy.
06. Using suitable examples, briefly explain how numerical data is employed in systematic studies.