

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 - 2009/2010



2

DURATION – TWO AND A HALF (02 1/2) HOURS

Date: 13th January 2010

Time - 9.30 a.m. – 12.00 noon

Answer any four (04) questions.

01. (a) Discuss the role of systematics in biological sciences.
(b) Citing examples, discuss the main era of historical development of modern plant classification systems.
02. (a) With the aid of examples, discuss the necessity of an internationally accepted code for naming plants.
(b) Outline the rules you would follow when assigning a botanical name to a newly identified plant species.
03. Differentiate between the following.
 - (a) Taxonomy and systematics
 - (b) Biological and morphological species concepts
 - (c) Extrinsic and intrinsic variations in plants
 - (d) Key characters and good characters used in plant identification
04. Write an account of the process of speciation in plants and animals.
05. (a) What is meant by numerical taxonomy ?
(b) Describe the major operational steps involved in numerical taxonomy.
06. (a) List **five (05)** major sources of taxonomic evidence.
(b) Briefly discuss any **two (02)** major sources of taxonomic evidence used in animal systematics.

- Copyrights Reserved -

