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 - 2006/2007



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

Date: 17th Nov. 2006 Time - 10.00 am - 12.30 pm

Answer Any Four (04) Questions.

- 01. (a) "In practice, identification in systematics involves classification and nomenclature too." Comment on this statement.
 - (b) Give a brief comparative account of the methods of plant identification.
 - (c) Outline the general steps followed in the identification of an unknown plant.
- O2. Write short notes on the following.
 - (a) Pre-Linnaean systems of plant classification
 - (b) Guidelines for the legitimate naming of plant species
 - (c) Main operations performed during systematic studies
- 03. Differentiate between the following.
 - (a) Sympatry and allopatry in speciation
 - (b) Synonyms and homonyms
 - (c) Extrinsic and intrinsic variations within populations
 - (d) Phenotypic variability in plants and animals
 - (e) Use of square brackets in botanical and zoological nomenclature
- 04. Briefly describe the ethical responsibilities of a good taxonomist.
- 05. Explain how the Numerical Taxonomy is used in systematic studies.
- 06. (a) List the taxonomic characters which are used in identification and classification of organisms.
 - (b) Describe how the physiological characters are used for the above purpose.

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