THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF NATURAL SCIENCES
B.Sc./ B. Ed. DEGREE PROGRAMME - LEVEL 04
BOU 2102 / BOE 4102 -SYSTEMATICS OF HIGHER PLANTS AND ANIMALS
FINAL EXAMINATION - 2015/2016



DURATION - TWO (02) HOURS

Date: 1st July 2016 Time: 9.30 - 11.30 am

Answer any four (04) questions.

If you are answering the question from Part B, Answer should be written in a separate Answer Book.

PART A

- 01. Write an essay on importance of studying systematics of organisms and specific objectives of systematics in a biological sense.
- 02. i) Explain how does the Botanical gardens serve as research centers, centers of educations and centers for conservation of certain plants.
 - ii) State the difference between a botanic garden and a herbarium. Briefly discuss the main functions of a herbarium.
- 03. Write short notes on any three (03) of the following.
 - i) Contribution of Linnaeus to plant systematics.
 - ii) Taxonomic literature in identification of plants.
 - iii) Flora of Sri Lanka during Dutch occupation
 - iv) Natural classification systems of plants
- 04. Biomolecules in plants have long been used as a source of taxonomic evidence.
 - a) State the major types of biomolecules that could be studied and used as taxonomic evidences
 - b) Briefly describe the principles of commonly used methods available to study the biomolecules mentioned in the above.
- 05. Write an account on practices that should be followed to become a "good systematist"

PART B

- 06. a) Define what is nomenclature
 - b) Citing examples, state four (4) advantages and four (4) disadvantages of using scientific names over common names for animals.
 - c) Describe the basic principles of International Zoological nomenclature (ICZN)

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