

THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. / B. Ed. DEGREE PROGRAMME - LEVEL 04
BTU 2103 / BTE 4103 / BTI 4103
SYSTEMATICS OF PLANTS AND ANIMALS
ASSESSMENT TEST (NO BOOK TEST) - 2009/2010
DURATION – ONE (01) HOUR



Reg. No.

Date: 02 – 11 - 2009

Time: 4.00 – 5.00 pm

Answer All Questions. Answers should be provided in the given space.

PART A (30 minutes)

01. Briefly outline the following.

a. Ethics in collecting plant specimens in the field

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b. Objectives of using botanical names for plants

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c. Advantages of morphological characters in plant taxonomy

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d. Genetic factors responsible for producing variability in plant populations

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02. Give the stepwise procedure you would follow in the identification of an unknown plant specimen.

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03. Give major reasons for the following.

a. Plant classification systems are subjected to continuous change.

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b. Systematics depends on other sciences for its existence.

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c. The name *Sunaptea oblonga* (Thw.) Kosterm. is illegitimate in terms of plant nomenclature.

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d. Plant systematists prefer 'key characters' over 'good characters' for identification in the field.

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PART B - (30minutes)

04. a. What are the **three (03)** different forms of information or data, which are gathered for systematic studies?

i.

ii.

iii.

- b. Briefly outline the purpose of gathering above information.

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- c. Give **three (03)** essential features of a 'good character'.

i.

ii.

iii.

05. Distinguish between the following.

- a. Synonyms and homonyms

Synonyms

Homonyms

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b. Ethological and physiological characters

Ethological characters

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Physiological characters

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c. Extrinsic and intrinsic variations

Extrinsic variations

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Intrinsic variations

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06. a. Give three (03) different sets of data used in the decimation grid.

i.....

ii.....

iii.....

b. How would you apply these data in the discrimination grid?