



SUPPLEMENTARY 2004/2005

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

**PROGRAMME: BACHELOR OF SCIENCE IN AGRICULTURE
YEAR 4 (CROP PRODUCTION AND
HORTICULTURE OPTIONS)**

COURSE CODE: CP 401

TITLE OF PAPER: CROP BOTANY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ALL QUESTIONS

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BY THE CHIEF INVIGILATOR**

QUESTION 1

Describe two types of botanical keys. What are the general guidelines that are used in key construction? Discuss the problems that are encountered in using botanical keys.

(25)

QUESTION 2

Give the general description of the Solanaceae family. Name five principal botanical species (scientific names) under this family and give the specific description pertaining to each species. Further indicate the economic values of each crop species named above.

(25)

QUESTION 3

Describe the general characteristics of the Fabaceae family. Give a classification scheme of the subfamilies of the Fabaceae. Discuss the N-Fixation mechanism found in the family and indicate the benefits of such system in crop production.

(25)

QUESTION 4

What is the value of plant taxonomy? What are the diagnostic characters that are used in developing the phylogenetic classification scheme. Discuss the merits and demerits of the phylogenetic classification system.

(25)