COURSE CODE: B301 (M) 2005

Page 1 of 3

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER 2005

TITLE OF PAPER: SPERMATOPHYTA

COURSE CODE:

B301

TIME ALLOWED:

THREE HOURS

INSTRUCTIONS:

- ANSWER FOUR QUESTIONS AT 1. **LEAST 2 FROM EACH SECTION.**
- 2. EACH QUESTION CARRIES TWENTY FIVE (25) MARKS.
- 3. **ILLUSTRATE YOUR ANSWERS WITH LARGE** AND CLEARLY LABELLED DIAGRAMS WHERE APPROPRIATE.

SPECIAL REQUIREMENTS:

NONE

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATORS

COURSE CODE: B301 (M) 2005

Page 2 of 3

SECTION A

QUESTION 1

Mainly using diagrams, discuss the biology of <u>Polypodium</u>, a pteridophyte.

[25 MARKS]

QUESTION 2

Discuss variability of the sporophyte in bryophytes by considering the sporophytes of <u>Mnium</u>, <u>Anthoceros</u> and <u>Marchantia</u>.

[25 MARKS]

QUESTION 3

Using annotated diagrams, discuss the biology of a gymnosperm of economic importance in Swaziland.

[25 MARKS]

SECTION B

QUESTION 4

Using illustrations and relevant examples, discuss sclereids in angiosperms.

[25 MARKS]

QUESTION 5

Present a well illustrated account of how root apical meristems are organized.

[25 MARKS]

115.

COURSE CODE: B301 (M) 2005

Page 3 of 3

QUESTION 6

Discuss the old family *Leguminosae sensu* lata or *Fabaceae* and explain the considerations that led to its fragmentation into the three current families. Examples and illustrations will help enhance your answer.

[25 MARKS]

375.