

**UNIVERSITY OF SWAZILAND**  
**FINAL EXAMINATION PAPER 2006**

**TITLE OF PAPER:** PLANT MORPHOLOGY  
**COURSE CODE:** B 202  
**TIME ALLOWED:** THREE HOURS  
**INSTRUCTIONS:**

- 1 ANSWER ANY FOUR (4) QUESTIONS.
- 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**

**QUESTION ONE**

Give an illustrated account of the sepal and petal morphology in Angiosperms.

[25 Marks]

**QUESTION TWO**

Describe the leaf patterns that occur in Gymnosperms as a group of higher plants.

[25 Marks]

**QUESTION THREE**

Describe the morphological patterns observable in simple fruits, noting appropriate examples.

[25 Marks]

**QUESTION FOUR**

Describe the possible levels of cohesion in the reproductive whorls of Angiosperm flowers.

[25 Marks]

**QUESTION FIVE**

[a]. Describe a typical Dicotyledonous seed.

[10 Marks]

[b]. Write notes on germination highlighting the possible types of germination. [15 Marks]

[Total : 25 Marks]

**QUESTION SIX**

Describe the fruits in the following plants and note their levels of morphological complexity:

[a]. *Ficus* spp [the fig tree] [7 Marks]

[b]. *Zea mays* [maize] [9 Marks]

[c]. *Ananas comosus* [pineapples] [9 Marks]

[Total: 25 Marks]

TOTAL MARKS: 100