

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER 2007/2008

- COURSE CODE : B202
- TITLE OF PAPER : PLANT MORPHOLOGY
- TIME ALLOWED : THREE (3) HOURS
- INSTRUCTIONS :
1. ANSWER ANY FOUR (4) QUESTIONS
 2. EACH QUESTION CARRIES 25 MARKS.
 4. 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 INVIGILATOR(S).

QUESTION 1.

Describe the morphology of the cones of three named Gynosperms.

[25 Marks]

QUESTION 2.

Describe and illustrate each of the following inflorescences:-

[a]. the capitulum. [15 Marks]

[b]. the corymb. [10 Marks]

[25 Marks]

QUESTION 3.

With the help of examples, write a descriptive essay on 'simple fruits'.

[25 Marks]

QUESTION 4.

Give the botanical descriptions and illustrations of the flowers whose floral formulae are given below:-

[a]. $K_5 C_{(5)} A_{10} \underline{G}_{(5)Z}$ [9 Marks]

[b]. $K_{(5)} C_{(5)} A_{\infty} G_0$ [8 Marks]

[c]. $K_4 C_4 A_8 \underline{G}_{(8)}$ [8 Marks]

[Total 25 Marks]

QUESTION 5.

Give an illustrated description of the possible types of the Angiosperm gynoecium.

[Total 25 Marks]

QUESTION 6.

Give an illustrated account and distinguish between:-

[a]. tendrils and stipules. [15 Marks]

[b]. cotyledons and the endosperm. [10 Marks]

[Total 25 Marks]

[TOTAL MARKS: 100]