

UNIVERSITY OF SWAZILAND

FINAL 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.

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 INVIGILATOR(S).

QUESTION 1.

Give an illustrated description of phyllotaxy.

[25 Marks]

QUESTION 2.

Describe and illustrate the Angiosperm inflorescence types.

[25 Marks]

QUESTION 3.

Give an illustrated account and distinguish between:-

[a]. a capsule and a follicle. [10 Marks]

[b]. a pome and a drupe. [8 Marks]

[c]. a silique and a legume. [7 Marks]

[25 Marks]

QUESTION 4.

Compare and contrast the reproductive structures of the following:-

[i]. Pinus spp.

[ii]. Zamia spp.

[Total 25 Marks]

QUESTION 5.

Describe the root form and structure found in Angiosperms.

[25 Marks]

QUESTION 6.

[i]. Discuss germination in Angiosperms. [15 Marks]

[ii]. Describe the bean Phaseolus vulgaris seed as an example of a dicotyledonous seed.

[10 Marks]

[Total 25 Marks]

[TOTAL MARKS: 100 ]