

UNIVERSITY OF SWAZILAND

RESIT [SUPPLEMENTARY] EXAMINATION PAPER 2017/2018

COURSE CODE : BIO261

TITLE OF PAPER : PLANT MORPHOLOGY

TIME ALLOWED : THREE (3 HOURS)

INSTRUCTIONS :

1. ANSWER ANY FOUR (4) QUESTIONS
2. EACH QUESTION COUNTS 25 MARKS.
3. USE CLEARLY LABELLED DIAGRAMS WHERE NECESSARY

SPECIAL REQUIREMENTS:

GRAPH PAPER MAY BE PROVIDED ON REQUEST.

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR(S).

QUESTION 1.

Describe “Indeterminate Inflorescence” in Angiosperms using diagrams where necessary. Explain its value in taxonomy.

[25 Marks]

QUESTION 2.

Review the typical structure of dicotyledonous roots and stems.

[25 Marks]

QUESTION 3.

Explain the significance of the environment on seed germination in the life cycle of higher plants.

[25 Marks]

QUESTION 4.

Describe the modifications that occur in aerial stems and highlight their functional significance.

[25 Marks]

QUESTION 5.

Describe the four tissue systems that underly the morphology of roots, stems and leaves in higher plants. Use illustrations where necessary.

[25 Marks]

QUESTION 6.

Use illustrations to describe the morphology of indeterminate branching in higher plants.

[25 Marks]

[TOTAL MARKS: 100]