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UNIVERSITY OF SWAZILAND

MARKS.

FINAL (MAIN) 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

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).

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QUESTION 1.

Describe leaf venation in dicotyledonous higher plants, taking into account the physiological significance of the veins. Use diagrams where necessary.

[25 Marks]

QUESTION 2.

Describe under-ground stem modifications in plants and highlight their functional significance.

QUESTION 3.

Compare the similarities and differences in morphology between typical monocotyledonous and dicotyledonous seeds during germination.

[25 Marks]

[25 Marks]

QUESTION 4.

Describe phylotaxy and explain how the pattern development may indicate higher plant taxonomy.

[25 Marks]

QUESTION 5.

Explain the possible morphological indications associated with a compound leaf. [25 Marks]

QUESTION 6.

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

[25 Marks]

[TOTAL MARKS: 100]