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UNIVERSITY OF SWAZILAND

RE-SIT [SUPPLEMENTARY] EXAMINATION PAPER 2019/2020

COURSE CODE : BIO261 / BIO481

TITLE OF PAPER : PLANT MORPHOLOGY

TIME ALLOWED : THREE (3 HOURS)

INSTRUCTIONS :

1. ANSWER ANY THREE (3) 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 a descriptive and illustrated account of "Determinate Inflorescence" in Angiosperms and explain its value in Taxonomy. [25 Marks]

QUESTION 2.

Describe the four simple fleshy fruit types and provide illustrated examples. [25 Marks]

QUESTION 3.

Discuss the role of environmental factors on germination and explain the possible morphological activities that take place when a typical dicotyledonous seed germinates. [25 Marks]

QUESTION 4.

Describe and illustrate the cell types that underscore morphology in higher plant roots, stems and leaves. [25 Marks]

QUESTION 5.

Describe the morphology of 'multiple fruits' and provide at least two illustrated examples. [25 Marks]

[TOTAL MARKS: 75]