



UNIVERSITY EXAMINATIONS 2013/2014 ACADEMIC YEAR

INSTITUTIONAL BASED

**1st YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF
EDUCATION SCIENCE**

**COURSE CODE/TITLE: SBT 102: PLANT MORPHOLOGY AND
ANATOMY**

END OF SESSION: III

DURATION: 3 HOURS

DAY/TIME: TUESDAY: 8.00 - 11.00AM

DATE: 3/12/2013 (KB)

Instructions

Answer all questions in section A and any two in section B
Illustrate your answers with diagrams where applicable

SECTION A (40 MARKS): Answer all questions

- Q1 (a) State three factors that govern root development. (3marks)
(b) Describe five types of root modifications. (7marks)
- Q2 (a) Distinguish between woody and herbaceous stem. (2marks)
(b) Describe four component parts of a leaf blade. (8marks)
- Q3 (a) State five component parts of a complete flower. (5marks)
(b) List five component parts of a seed. (5marks)
- Q4 (a) Describe four features found in plant cells only. (6marks)
(b) State four main differences between vessels and tracheids. (4marks)

SECTION B (30 MARKS): Answer any two questions

- Q5 Discuss the composition and functions of phloem tissue. (15marks)
Q6 Discuss development stages of an ovule. (15marks)
Q7 Discuss the changes that occur in a flower after fertilization. (15 marks)