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KIBABII UNIVERSITY

**MAIN CAMPUS
MAIN EXAM**

**UNIVERSITY EXAMINATIONS
2016/2017 ACADEMIC YEAR**

**SECOND YEAR SECOND SEMESTER EXAMINATIONS
FOR THE DEGREE
OF
BACHELOR OF EDUCATION SCIENCE/ BACHELOR OF
SCIENCE IN BIOLOGY**

COURSE CODE: SBT 222

COURSE TITLE: PLANT STRUCTURE AND FUNCTION

DATE: 22/09/2017

TIME: 3:00 -5:00 P.M

INSTRUCTIONS TO CANDIDATES

Answer Question One **compulsory (30mks)** and any other Two Questions **(20mks)** each.

TIME: 2 Hours

KIBABII observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over. ►

QUESTION ONE (30MKS)

- a) Highlight the structure and composition of the plant cell wall (5 marks)
- b) Characteristic features of meristematic cells (5 marks)
- c) Outline any **FIVE** difference between a dicot and a monocot stem (5 marks)
- d) State any **FIVE** conditions necessary for seed germination (5 marks)
- e) Using a well labelled diagram, outline the structure of a chloroplast (5 marks)
- f) Highlight the process of water transportation in plants from the soil (5 marks)

QUESTION TWO

Discuss the major types of tissues system in plants giving their cell composition and functions (20 marks)

QUESTION THREE

Discuss the ecological and anatomical adaptations of the various groups of plants to their environment/habitats (20 marks)

QUESTION FOUR

Describe the mechanism and importance of secondary growth in plants (20 marks)

QUESTION FIVE

Discuss Soil-water plant relationships (20 marks)