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(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER SUPPLEMENTARY/SPECIAL EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE BIOLOGY,
BACHELOR OF SCIENCE BIORESOURCE MANAGEMENT AND
CONSERVATION AND BACHELOR OF AGRICULTURAL EDUCATION
AND EXTENSION.**

COURSE CODE: SBT 221
COURSE TITLE: PLANT ECOLOGY 1

DATE: 27/09/2017

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

INSTRUCTIONS TO CANDIDATES

Answer Question one(1) and any other two (2) Questions. Question one is compulsory and carries 30 marks , the other Questions carry 20 marks each.

TIME: 2 Hours



This paper consists of 2 printed pages. Please Turn Over

KIBU observes ZERO tolerance to examination cheating

QUESTION 1

- a. i. Define Ecology (2mks).
 - ii. Explain why is it necessary to study ecology (2mks).
 - b. List the demographic factors of a plant population (5mks).
 - c. Define and give an example of free living organotrophs (3mks).
 - d. Elucidate the human influence on water ecosystems (5mks).
 - e. Describe four levels of organisation in an ecosystem (4mks).
 - f. State attributes of the ecosystem exhibited by the Kormondy energy Model (5mks),
 - g. Explain the four levels of conservation within an ecosystem (4mks).
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2. Discuss the exponential growth model of populations in an ecosystem (20mks).
 3. Discuss the flow of energy in an ecosystem (20mks).
 4. Write an Essay on Ecological pyramids (20mks).
 5. Discuss the abiotic factors that determine species distribution and abundance (20mks).