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KIBABII UNIVERSITY

**UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR**

**SECOND YEAR SECOND SEMESTER MAIN
EXAMINATIONS
FOR THE DEGREE OF BACHELOR OF SCIENCE IN
BIORESOURCES CONSERVATION AND MANAGEMENT**

COURSE CODE: SBC 223

COURSE TITLE: TECHNIQUES IN BIORESOURCES MANAGEMENT

DATE: WEDNESDAY 1st August 2018

TIME: 9:00 – 11:00 a.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

KIBU observes ZERO tolerance to examination cheating

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

QUESTION ONE (30MKS)

- a] Giving an example in each case, distinguish between ex-situ and in-situ conservation as the main conservation strategies [5marks]
- b] Define carrying capacity. With illustrations, briefly explain the two patterns of carrying capacity [5marks]
- c] Briefly describe giving the indicators of the IPAT equation as a factor in habitat management [5marks]
- d] State any five environmental benefits of environmental restoration of degraded habitats [5marks]
- e] Define ecosystem services. State and briefly explain any four groups of ecosystem serves that can be derived from a properly managed habitat [5marks]
- f] State any five causes of environmental degradation that are likely to interfere with normal productivity of habitats [5marks]

QUESTION TWO

Describe giving examples in each case the five theoretical foundations of restoration ecology. In each of the foundations, kindly state an effect of the same [20marks]

QUESTION THREE

Discuss the International Union for the conservation of nature of fauna and flora (IUCN) guidelines that are used for successful species introduction [20marks]

QUESTION FOUR

Management strategies of endangered species aim to prevent extinction, restore healthy populations of rare organisms, and protect ecosystem function. Discuss the steps involved in the recovery of a named endangered species [20marks]

QUESTION FIVE

Describe the behavioral, physiological and social responses of animals to changing environments (15marks)