KIBABII UNIVERSITY

MAIN CAMPUS
SPECIAL/SUPPLEMENTARY EXAM

UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER EXAMINATIONS
FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN BIORESOURCE MANAGEMENT AND CONSERVATION

COURSE CODE: SBC 223

COURSE TITLE: TECHNIQUES IN BIORESOURCES MANAGEMENT

DATE: 11th October, 2018   **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. ▶

SBC 223: Techniques in Bioresources Management

QUESTION ONE (30MKS)

a] Highlight any five components that underlie most of the wildlife management decisions
[5marks]

b] Define Lincoln-Petersen Index. State four assumptions of the Lincoln-Petersen Index
[5marks]

c] Define wildlife corridors. State any four ways through which these corridors can be enhanced
[5marks]

d] Kakamega forest as an ecosystem has as a result of encroachment been reduced to forest fragments. State and briefly explain five effects of habitat fragmentation [5marks]

e] State any five types of identification that have been used in wildlife identification within national parks in Kenya [5marks]

f] Distinguish r- selected and k-selected species and give an example in each of the cases
[5marks]

QUESTION TWO

Discuss the five approaches used to estimate the wildlife population giving two (2) merits and two (2) demerits of the approaches [20marks]

QUESTION THREE

Describe factors that shape most of the habitats and in each case indicate whether they modify the habitats positively or degrade them [20marks]

QUESTION FOUR

Describe the approaches the Kenyan government through Kenya Wildlife Service (KWS) has used to ensure that there is effective enhancement of habitats and ecosystems within protected areas [20marks]

QUESTION FIVE

Discuss giving the merits and demerits of any five types of sampling that can be used in the estimation of wildlife population [20marks]

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