



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

FOURTH YEAR 1ST SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY,
BACHELOR OF EDUCATION SCIENCE AND BACHELOR OF SCIENCE
BIORESOURCE MANAGEMENT & CONSERVATION

COURSE CODE:

SBT 413

COURSE TITLE:

ECOLOGICAL MONITORING

DATE:

19th December 2017

TIME: 8:00 - 10:00 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

This paper consists of 2 printed pages. Please Turn Over KIBU observes ZERO tolerance to examination cheating

1	a) Describe briefly how to create a sampling design (5 to b) List any five indicators that can be measured using point based satisfactors.	(5 marks)
1.		d sampling
	b) List any five indicators are	(5 marks)
	c) Briefly describe any five methods of ecological monitoring	(5 marks)
	d) Highlight five approaches of estimating ecosystem productivi	ty (5 marks)
	e) Briefly describe the transect based sampling in a terrestrial habit	bitat
		(5 marks)
	f) Explain briefly the principles of remote sensing	(5 marks)
_	Discuss the various methods used in population monitoring	(20 marks)
2.	Discuss the general features of an ecological sampling design	(20 marks)
3.	Describe the activities involved in under storey method of sampling	
4.	Describe the activities involved in under story	(20 marks)
_	Discuss the applications of advanced very high resolution radiometer (AVHI and a normalized difference vegetation index (NDVI) in monitoring of (20 marks)	
5.		
	ecosystems	