



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER SUPPLEMENTARY EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY AND
BACHELOR OF SCIENCE IN BIORESOURCE CONSERVATION AND
MANAGEMENT**

COURSE CODE: SBT 323

COURSE TITLE: PLANT ECOLOGY II

DATE: 12th October, 2018

TIME: 11:30 – 1:30 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

1. (a) (i) Define population density of an ecosystem. (2 Marks)
(ii) Briefly describe the carrying capacity of an ecosystem. (4 Marks)
(iii) Describe the biotic potential of a population. (4 Marks)
- (b) (i) Differentiate between interspecific and intraspecific competition in an environment. (2 Marks)
(ii) Explain the effects of increased prey availability in a community. (4 Marks)
(iii) Describe the effect of community interactions on an ecosystem. (4 Marks)
- (c) (i) Define Biomes. (4 Marks)
(ii) List any Four factors that are used to define terrestrial biomes. (1 Mark)
(iii) Explain how latitude as a climatic factor determines the distribution of Terrestrial biomes. (5 Marks)
2. Discuss Aquatic biomes. (20 Marks)
3. Describe the Hutchinsonian niche. (20 Marks)
4. Describe vegetation in Eastern Africa. (20 Marks)
5. Discuss plant life forms. (20 Marks)