

UNIVERSITY OF KABIANGA
UNIVERSITY EXAMINATIONS (2016/2017)
SECOND YEAR SECOND SEMESTER EXAMS
BOT 212: PLANT ECOLOGY 1 (MAIN PAPER)
TIME: 3 HOURS

SECTION A (28 MARKS): ANSWER ALL QUESTIONS IN THIS SECTION

- 1) Differentiate between the following ecological terms
 - i) Ammonification and Denitrification (2 marks)
 - ii) Eutrophication and limiting factor (2 marks)
- 2) Highlight the mechanisms of competition (4 marks)
- 3) Describe four types of pyramids found within an ecosystem (4 marks)
- 4) What is the importance of population dynamics (4 marks)
- 5) Why should species be saved? (4 marks)
- 6) Highlight the Laws of thermodynamics (4 marks)
- 7) State the roles of the following in ecosystems
 - i) Decomposers (2 marks)
 - ii) Fires (2 marks)

SECTION B(42 MARKS): ATTEMPT ANY THREE QUESTIONS IN THIS SECTION

- 8) Write notes on ecological succession. *Fires. Grazing* (14 marks)
- 9) Describe the carbon cycle.(14 marks) *Detritus Parasitic*
- 10) Describe the various biomes on planet earth.(14 marks) *Stability*
- 11) Write notes on genetically modified organisms.(14 marks) *Pollinators Allergic No weight gain*