



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN MANAGEMENT OF AGROECOSYSTEMS AND ENVIRONMENT

BACHELOR OF SCIENCE IN WATER RESOURCES MANAGEMENT

AEM 207: BIODIVERSITY USE AND CONSERVATION

DATE: APRIL 10, 2017

TIME: 11:00AM-1:00PM

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE

- a) Define the following terms
- i) Eco-refugees (2 Marks)
 - ii) Environmental Stewardship (2 Marks)
 - iii) Species abundance (2 Marks)
 - iv) Allelopathic effect (2 Marks)
- b) Differentiate between
- i) Species and Population (2 Marks)
 - ii) Habitat and Ecosystem (2 Marks)
 - iii) Rehabilitation and Restoration of ecosystems (2 Marks)
- c) Describe the main objectives of convention on biological diversity (3 Marks)
- d) Describe the attributes of ecological restoration process (4 Marks)
- e) Describe four invasive arthropods in Kenya (4 Marks)
- f) State any five international initiatives relevant to traditional knowledge (5 Marks)

QUESTION TWO

- a) Discuss the major impacts of biotechnology on biodiversity in Kenya (10 Marks)
- b) Technological advancement, especially Information Technology (IT) is one of the ways of conserving the environment. Justify the statement (10 Marks)

QUESTION THREE

- a) Discuss the principles of good ecological restoration practice under ecosystems (10 Marks)
- b) Using Malthusian Theory of population, discuss the increase in human population as a threat to biodiversity (10 Marks)

QUESTION FOUR

- a) Discuss the major conservation strategies used in Kenya (10 Marks)
- b) Discuss introduction of species and biological invasion as a principle threat to biodiversity (10 Marks)

QUESTION FIVE

- a) Using relevant examples, discuss various ecosystem services in Kenya (10 Marks)
- b) Discuss the criteria you would consider in establishing a Conservancy in Embu County (10 Marks)

END