

**MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2016/2017 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER**

**SCHOOL OF TOURISM AND NATURAL**

**RESOURCE MANAGEMENT**

**BACHELOR OF SCIENCE IN ENVIRONMENTAL STUDIES (ENVIRONMENTAL BIOLOGY & HEALTH)**

**COURSE CODE: EBH 303**

**COURSE TITLE: TERRESTRIAL TROPICAL COMMUNITIES & THEIR CHARACTERISTICS**

**DATE: 23RD JANUARY, 2017 TIME: 1100 – 1300HRS**

**INSTRUCTIONS TO CANDIDATES**

Answer **ALL** questions in section **A** and any other **THREE** in section **B.**

***This paper consists of 2 printed pages. Please turn over***

**SECTION A: Answer All Questions (25 MARKS)**

1. Write short notes on the following :
2. Primary and secondary succession **(5 Marks**)
3. Estuary ecosystem (**5 Marks**)
4. Briefly discuss factors that affect distribution of biomes (**5 Marks**)
5. Distinguish between desert and semi-desert. (**2 Marks**)
6. State significance of fire and grazing in savanna grasslands **(3 Marks)**
7. Highlight effects of human activities on marine ecosystems     **(5 Marks**)

**SECTION B :( 45 MARKS) Answer ANY 3 Questions**

1. (a)Discuss human impacts on forest and grassland biomes (**12 Marks**)

b) Explain ways in which forest and grasslands can be conserved **(3 Marks**)

1. Describe social, ecological and economic importance of wetlands (**15Marks**)
2. Using appropriate examples, discuss challenges facing conservation of terrestrial tropical communities **(15 Marks)**
3. You have been selected as an advisor to Environment Department in your county. Propose some strategies to be implemented to enhance conservation Forest, grasslands and aquatic biomes **(15 Marks)**

**//END**

**MAASAI MARA UNIVERSITY**

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**THIRD YEAR FIRST SEMESTER:SUPPLEMENTARY/SPECIAL EXAMINATION**

**SCHOOL OF TOURISM AND NATURAL**

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**SECTION A: (25 MARKS)**

1. Differentiate between

(a)Depth diversity gradient and Latitude diversity gradient (3 Marks)

(b)Lotic and Lentic fresh water (3 Marks)

1. List economic importance of forest ecosystems (3Marks)
2. Outline causes of secondary succession (3 Marks)
3. State human impacts on marine ecosystems (5Marks)
4. Write short notes
5. Climax Species (2.5 Marks)
6. Pioneer Species (2.5 Marks)
7. List ways in which species diversity enhances ecosystem productivity

(3 Marks)

**Section B: Answer any 3 Questions**

1. Discuss challenges facing conservation of terrestrial tropical communities **(15 mks)**
2. Giving examples discuss ecological services natural ecosystems and species provide **( 15 mks)**
3. Discuss approaches to conservation of terrestrial tropical communities(15mks)
4. Explain adaptations of plants and animals to desert and semi desert life

**(15 Marks)**