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**MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2016/2017 ACADEMIC YEAR**

**THIRD YEAR SECOND SEMESTER**

**SCHOOL OF TOURISM & NATURAL RESOURCES MANAGEMENT**

**BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE**

**COURSE CODE: EBH 310**

**COURSE TITLE: AQUATIC ECOLOGY AND**

**CONSERVATION**

**DATE: 13TH JULY, 2017 TIME: 1430 – 1630HRS**

**INSTRUCTIONS**

1. Attempt all questions in Section A and any THREE in Section B
2. Marks for each question are indicated in parenthesis

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

**SECTION A: (25 MARKS)**

1. Define the following terms. **(4 Marks)**
2. Aquatic ecosystem
3. Hydrophytes
4. Biome
5. Biosphere
6. Differentiate between Phytoplankton and Zooplankton **(4 Marks)**

### Briefly explain the meaning fall overturn? (2 Marks)

1. Explain the three basic types of freshwater ecosystems. **(5 Marks)**
2. List the dominant life forms in the limnetic zone of the fresh water ecosystem? **(5 Marks)**

#### Give a brief explanation on the functions of interactions in a fresh water ecosystem. (5 Marks)

**SECTION B: (45 MARKS)**

1. With the aid of a well labelled diagram, describe the major zones a fresh water lake. **(15 Marks)**
2. Discuss the functions of aquatic ecosystems. **(15 Marks)**
3. (a) What is water pollution? – **(3Marks)**

 (b) Discuss strategies that can be put in place to prevent and control water pollution.  **(12 Marks)**

#### Explain in details how the physical environment can influence the aquatic life forms. (15 Marks)

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