



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2018/2019 ACADEMIC YEAR  
FIRST YEAR SECOND SEMESTER**

**SCHOOL OF TOURISM AND NATURAL  
RESOURCE MANAGEMENT  
DIPLOMA IN TOURISM AND WILDLIFE  
MANAGEMENT**

**COURSE CODE: NDTW 123  
COURSE TITLE: MARINE AND FRESH WATER  
ECOLOGY**

**DATE: 28<sup>TH</sup> AUGUST, 2019**

**TIME: 0830 - 1030 HRS**

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**INSTRUCTIONS TO CANDIDATES**

Answer questions ONE and any other **THREE**

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

**QUESTION ONE (COMPULSORY) (25 Marks)**

- a) Discuss the different types of lakes based on their nutrients levels **(5 Marks)**
- b) Briefly outline five functions of an aquatic ecosystem **(5Marks)**
- c) Briefly discuss factors that affect aquatic ecosystem in Kenya **(5 Marks)**
- d) Describe physio-chemical properties of water and their relevance for life **(5 Marks)**
- e) Describe thermostratification in open lakes **(5 Marks)**

**ANSWER ANY THREE (3) QUESTIONS (45 Marks)**

**QUESTION TWO**

Discuss impact of oil spillage in oceans explaining mechanical and chemical methods of cleaning up the oil **(15 Marks)**

**QUESTION THREE**

Discuss biological adaptations of plants and animals living in an aquatic environment. **(15 Marks)**

**QUESTION FOUR**

With sufficient details, discuss vertical stratification in Open Ocean based on the level of light penetration, their characteristics and associated biodiversity **(15 Marks)**

**QUESTION FIVE**

Discuss the “whale fall” stages involved in the decomposition and nutrients release in an ocean **(15 Marks)**

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