



# **MAASAI MARA UNIVERSITY**

**SPECIAL/RESIT UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR  
THIRD YEAR FIRST SEMESTER**

**SCHOOL OF NATURAL RESOURCES TOURISM  
AND HOSPITALITY  
BACHELOR OF BACHELOR OF ENVIRONMENTAL  
STUDIES(BIOLOGY AND HEALTH)**

**COURSE CODE: EBH 3118**

**COURSE TITLE: WATER, HEALTH AND  
SANITATION**

**DATE: 1<sup>ST</sup> APRIL, 2022**

**TIME: 0830-1030**

---

## **INSTRUCTIONS TO CANDIDATES**

**Answer ALL the questions in section A and any THREE questions in section B**

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

**SECTION A: 25 MARKS (ANSWER ALL THE QUESTIONS)**

- 1) Based on your understanding, describe improved water supply and sanitation (2 marks).
- 2) What do you understand by Water regulations and act (2 marks)
- 3) Explain Five (5) importance of Sanitation in the society (5 marks)
- 4) Explain what is meant by water quality standards ( WQS)and discuss its core components (4 marks)
- 5) Explain Three Biological effects of water pollution (3 marks)
- 6) Highlight Five Water Resources Management Authority initiatives on Effluent Dischargers (5 marks )
- 7) Differentiate between Direct and Indirect water supply (1 marks)
- 8) Explain Three methods of water management (3 marks)

**SECTION B: 45 MARKS (ANSWER ANY THREE QUESTIONS)**

- 9 a. Explain **Three** levels of water quality assessment (3 Marks)
- b. Discuss the **six** major challenges in the provision of safe water and sanitation on a global basis (12 marks )
- 10 a. State **Three** sources of water pollution (3 marks)
- b. With aid of a diagram explain the water quality monitoring cycle

**(12 marks)**

- 11 a. Differentiate between **Point and non- point** sources of water pollution (4 marks )
- b. Describe **four** effects of water pollution (8 marks)
- c. Discuss **Three** types of water quality monitoring in Kenya (3 marks )
- 12 a. According to your understanding explain what is meant by water quality objective and water quality criterion (4 marks)
- b. Highlight **Three** advantages of water quality objectives (3 marks )
- c. Describe **Ten** key elements of water quality assessment programme (10 marks).

**////END////**