



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER
SCHOOL OF NATURAL RESOURCES & ANIMAL
SCIENCES
BACHELOR OF BACHELOR OF ENVIRONMENTAL
MANAGEMENT

COURSE CODE: EBH 3118

COURSE TITLE: WATER, HEALTH AND
SANITATION

DATE: TUESDAY 4TH DECEMBER, 2019

TIME: 1100 – 1300 HRS

INSTRUCTIONS TO CANDIDATES

Section A is compulsory

Answer any THREE questions in section B

This paper consists of 3 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 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)

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- 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)**

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- a. State **Three** sources of water pollution **(3 marks)**
- b. With aid of a diagram explain the water quality monitoring cycle **(12 marks)**

- 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**)

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- 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**).