



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2019/2020 ACADEMIC YEAR  
THIRD YEAR SECOND SEMESTER**

**SCHOOL OF NATURAL RESOURCES AND  
ANIMALS SCIENCES  
BACHELOR OF SCIENCE IN ENVIRONMENTAL  
MANAGEMENT**

**COURSE CODE: EEM 3227**

**COURSE TITLE: WATER RESOURCE MANAGEMENT**

**DATE: 9<sup>TH</sup> DECEMBER, 2019**

**TIME: 1100 - 1300 HRS**

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**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. Explain three water resource conservation strategies (6 marks)
2. Explain the three types of aquifers (6 marks)
3. Explain the general approaches planning and management (4 marks)
4. Outline the importance of water resource management (3 marks)
5. Differentiate between precipitation intensity and frequency (2 marks)
6. Explain two aspects of water resource planning and management (4 marks)

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

7. Discuss the factors that would enhance groundwater recharge through infiltration/ percolation (15 marks)
8. Discuss the conditions considered in the implementation of Integrated Water Resource Management (15 marks)
9. Discuss the importance of public participation and stakeholder involvement in water resource management (15 marks)
10. Explain the various ways human activities can contribute to groundwater contamination (15marks)

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