

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR THIRD YEAR SECOND SEMESTER

SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT BACHELOR OF SCIENCE IN ENVIRONMENTAL MANAGEMENT/URP

COURSE CODE: URP 3201 AND EEM 3227

COURSE TITLE: WATER RESOURCEPLANNING AND MANAGEMENT/ WATER RESOURCE MANAGEMENT

DATE:26/4/2019 TIME: 8.30-10.30AM

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

- 1. Explain the two approaches employed in water resources planning and management (4 marks)
- 2. Explain the three types of aquifers (6 marks)
- 3. Differentiate between infiltration and percolation (2 marks)
- 4. Explain the components of water resource system (6 marks)
- 5. Differentiate between a water resource planner and a water resource decision maker (2 marks)
 - a) Define term integrated water resource management (2 marks)
 - b) Highlight the importance of stakeholder involvement in water resources management (3 marks)

SECTION B: ANSWER ANY THREE QUESTIONS

- 6. Maasai Mara University intends to develop a water drinking treatment and supply system within the university and the immediate surrounding areas. Identify and discuss the planning and management aspects that must be considered. (15 marks)
- 7. Discuss the Dublin guiding principles on Water and Sustainable Development (15 marks)
- 8. Explain the factors that would enhance groundwater recharge through infiltration/percolation (15 marks)
- 9. Explain the various ways human activities can contribute to groundwater contamination (15marks)

//END