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*(University of Choice)*

**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)  
MAIN CAMPUS  
UNIVERSITY EXAMINATIONS  
MAIN EXAM**

**2023/2024 ACADEMIC YEAR**

**SECOND YEAR FIRST SEMESTER EXAMINATION**

**FOR THE DIPLOMA IN COMMUNITY HEALTH AND DEVELOPMENT**

**COURSE CODE: CHD 313**

**COURSE TITLE: WATER SUPPLY AND MANAGEMENT**

**DATE: 13<sup>TH</sup> /12 /2023**

**TIME: 9.00- 11.00AM**

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**INSTRUCTIONS TO CANDIDATES:**

**Answer Section A (COMPULSORY) and any other TWO QUESTIONS SECTION B.  
TIME: 2 Hours**

MMUST observes ZERO tolerance to examination cheating

Paper Consists of 2 Printed Pages. Please Turn Over



## **SECTION A: ANSWER ALL THE QUESTIONS**

1. State four public health importance of water to our communities.(4marks)
2. Differentiate the following terms as used in water supply management
  - Aquifer and free water (2marks)
  - Igneous rock and metamorphic rock (2marks)
3. State any four factors that leads to contamination of groundwater by pathogenic organisms or dangerous chemical pollutants.(4 marks)
4. Describe any four reason why large percentage of planet is water yet there is no sufficient supply of potable water.(4 marks)
5. Define the following term as used in water supply management
  - Infiltration (1mark)
  - Hydrosphere (1mark)
  - Confined water (1 mark)
  - Pollution (1mark)
6. Describe any four health related problems in our communities related to water. (4 marks)
7. Climate Change is a global emerging issue that is affecting all sectors in the world. Describe any four effects of climate change to water supply management. (4marks)
8. State four sources of water within the planet earth. (4marks)
9. List the four categories of water associated diseases. (4marks)
10. State preventive strategies of water borne diseases. (4marks)

## **SECTION B ANSWER ANY TWO QUESTIONS**

11. Discuss particle measures for sustainable water supply management of ASALs (Arid and Semi-Arid) areas in Kenya. (15 marks)
12. Discuss the effect of water scarcity in our communities. (15marks)
13. Draw the hydrological cycle and describe the processes that take place. (15mark)