



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR
BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

ENS 245: ENVIRONMENTAL HYDROLOGY

DATE: 24/3/2021

TIME: 2.00-4.00 PM

INSTRUCTIONS:

Answer question **ONE** and any other **TWO** questions

QUESTION ONE (30 MARKS)

- Using an illustration, describe the main components of the hydrological cycle (10 marks)
- Briefly discuss any **five** factors contributing to surface water pollution in Kenya (10 marks)
- Highlight the significance of the water cycle in environmental management (10 marks)

QUESTION TWO (20 MARKS)

Discuss **four** advantages of using groundwater in socioeconomic development of your County.

QUESTION THREE (20 MARKS)

Suppose you have been appointed to advise the Governor of your County on sustainable management of water resources, give a detailed account of what your advice would entail.

QUESTION FOUR (20 MARKS)

Discuss any **five** factors contributing to increasing water utilization in your County.

QUESTION FIVE (20 MARKS)

Discuss any **four** strategies of coping with drought occurrence in your community.