

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE
AND NATURAL RESOURCE MANAGEMENT

NARE 351: WATERSHED MANAGEMENT

STREAMS: BSC (ENSC, NARE) Y3S1

TIME: 2 HOURS

DAY/DATE: THURSDAY 06/12/2018

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- Answer ALL questions in section A and any other TWO in section B
- Do not write anything on the question paper

- Q1. Explain six principles of watershed management [6 marks]
- Q2. Explain the key technical actions of a watershed management program [4 marks]
- Q3. Briefly state ecological use of water [5 marks]
- Q4. Explain three physiographic features of a watershed that affects stream flow [5 marks]
- Q5. Suggest five measures that can be taken to curb watershed deterioration [5 marks]
- Q6. Highlight four methods of data collection techniques [4 marks]

SECTION B (40 MARKS)

- Q7. Using the water balance model, explain the various mechanisms of water conservation [20 marks]
- Q8. Discuss the characteristics you would consider before constructing a dam across a river channel [20 marks]
- Q9. Discuss the key steps of a watershed management plan [20 marks]

