

**W1-2-60-1-6**

## JOMO KENYATTA UNIVERSITY

**OF**

**AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2016/2017**

**YEAR II SEMESTER II EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE**

**SZL 2217: WATERSHED MANAGEMENT**

**DATE: JUNE 2017 TIME: 2 HOURS**

INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS. ILLUSTRATE WHERE NECESSARY.

QUESTION ONE (COMPULSORY – 30 MARKS)

a) Define the terms watershed and watershed management (5 marks)

b) Describe briefly the importance of watershed management (5 marks)

c) Explain the principles of watershed management (5 marks)

d) Explain various ways of watershed rehabilitation (5 marks)

e) Discuss briefly the benefits of stakeholder involvement in watershed management (5 marks)

f) Explain briefly how land use activities affect hydrological processes

(5 marks)

QUESTION TWO

Discuss the main causes of watershed degradation (20 marks)

QUESTION THREE

Discuss the main steps involved in the development of a watershed management plant (20 marks)

QUESTION FOUR

Development of Tana River’s watershed management plan would require participation of multiple stakeholders. Discuss (20 marks)

QUESTION FIVE

Discuss the various concepts of watershed management (20 marks)