

2021/2022 ACADEMIC YEAR

FIRST SEMESTER EXAMINATIONS FOURTH YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN WATER RESOURCE MANAGEMENT

ASS 402: WATERSHED MANAGEMENT

DATE: NOVEMBER 29,2021

TIME:11:00AM-1:00PM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE (30 MARKS)

a)	Explain slope as a watershed characteristic	(4 marks)
b)	Discuss the functions of a watershed	(6 marks)
c)	Using an example describe the characteristics of headwater watersheds	(6 marks)
d)	Explain the concept of water quality	(4 marks)
e)	Describe four types of clouds	(5 marks)
f)Discuss the key stakeholders in watershed management		(5 marks)





QUESTION TWO (20 MARKS)

- a) Explain the characteristics of a healthy watershed to a water resource manager in your home County (13 marks)
- b) Assess the reasons for shortage of water in an urban watershed (7 marks)

QUESTION THREE (20 MARKS)

- a) Explain the rationale of harvesting rain water in watershed management (11 marks)
- b) Discuss *Five by Nine* planting pits (9 Marks)

QUESTION FOUR (20 MARKS)

- a) Describe the land uses in River Rupingazi watershed (8 Marks)
- b) Evaluate possible forms of degradation of this watershed (12 Marks)

QUESTION FIVE (20 MARKS)

- a) Explain the role of the County government of Embu in watershed management (8marks)
- b) Discuss the measures that the County government of Embu can put in place to maintain watershed health (12 marks)



