



**ALUPE UNIVERSITY**  
**COLLEGE**  
*Bastion of Knowledge...*

P. O.Box 845-50400 Busia(K)  
principal@auc.ac.ke  
Tel: +254 741 217 185  
+254 736 044 469  
off Busia-Malaba road

**OFFICE OF THE DEPUTY PRINCIPAL  
ACADEMICS, RESEARCH AND STUDENT AFFAIRS**

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# **UNIVERSITY EXAMINATIONS**

## **2021/2022 ACADEMIC YEAR**

**FOURTHYEAR FIRSTSEMESTER REGULAR EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF  
EDUCATION (ARTS/BUSINESS STUDIES)**

**COURSE CODE: GEO 416**

**COURSE TITLE: HYDROLOGY AND WATERSHED  
MANAGEMENT.**

**DATE: 28/1/2022**

**TIME: 2-5PM**

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### **INSTRUCTION TO CANDIDATES**

- SEE INSIDE

**THIS PAPER CONSISTS OF 3 PRINTED PAGES**

**PLEASE TURN OVER**

**INSTRUCTIONS TO CANDIDATES**

- i. Answer Question **ONE** and any other **TWO** questions.
- ii. Maps, sketches and diagrams should be used whenever they serve to illustrate the answer.
- iii. Do not write on the question paper.

**Question One**

- a) Explain the meaning of the following terminologies. (9 Marks)
  - 1). River basin
  - 11) Ground water system
  - 111) water storage
- b) With an aid of a diagram explain the processes of hydrological cycle. (15 Marks)
- c) What is international water conflicts (6 marks)

**Question Two**

- a) Explain the relationship that exists among soils, plants and water. (12 Marks)
- b) Discuss the concept of world water budget. (8marks)

**Question Three**

- a) 1) What is soil erosion (2mks)
  - 11) Explain any FOUR soil conservation measures. (8 mks)
- b) “Water contamination is a threat to humanity”. Discuss the statement in reference to water pollution. (10mks)

**Question Four**

- a) Explain the FOUR factors that affect water storage (10mks)
- b) Explain FIVE interrelated phases of ground water development (10mks)

**Question Five**

- a) What is Urban Decision Support System? (4mks)
- b) Explain FOUR water catchment management methods ( 8mks)
- c) Explain any FOUR modern uses of water (8 Marks)

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