



OFFICE OF THE DEPUTY PRINCIPAL
ACADEMICS, RESEARCH AND STUDENT AFFAIRS

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER 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

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)
