



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

(MAIN CAMPUS)

**UNIVERSITY SPECIAL/SUPPLEMENTARY
EXAMINATIONS**

2021/2022 ACADEMIC YEAR

**SECOND YEAR, SECOND SEMESTER SUPP/SPECIAL
EXAMINATIONS**

FOR THE DEGREE OF

**BACHELOR OF SCIENCE IN CIVIL AND STRUCTURAL
ENGINEERING**

COURSE CODE: CSE 226

COURSE TITLE: ENGINEERING GEOLOGY

DATE: 4TH AUGUST 2022

TIME: 2PM – 4PM

Instructions to Candidates

- This paper contains FOUR (4) questions
- Answer ALL questions in Section A and ANY TWO in Section B

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over →

SECTION A: Answer ALL questions

[30 Marks]

Question ONE

- a) Describe weathering process as applied in engineering geology [5 Marks]
- b) With examples, explain why time is critical in engineering geology [6 Marks]
- c) Outline the agents of Geomorphic processes [4 Marks]
- d) Briefly describe the earth components in relation to engineering geology [8 Marks]
- e) With an aid of a sketch, describe oceanic-oceanic convergent plates [7 Marks]

SECTION B: Answer ANY TWO questions

[40 Marks]

Question TWO

- a) With an aid of a sketch, describe two types of earth's crust [8 Marks]
- b) Describe earth's boundaries between its layers [12 Marks]

Question THREE

Discuss the effects of ground water on engineering project [20 marks]

Question FOUR

- a) Discuss the effects of earthquakes [12 Marks]
- b) Discuss seismic loading in earthquake engineering [8 Marks]

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