



MACHAKOS UNIVERSITY

University Examinations for 2020/2021

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

SECOND YEAR TERM I EXAMINATION FOR

DIPLOMA IN BUILDING TECHNOLOGY AND CIVIL ENGINEERING

GEOTECHNOLOGY 1I

DATE: 11/6/2021

TIME: 2:30 – 5:30 PM

INSTRUCTIONS

ANSWER ALL QUESTIONS

1.
 - a) Explain five factors to be considered in dam site selection (10 marks)
 - b) Differentiate physical weathering from chemical weathering (4 marks)
 - c) Explain three problems associated with dam construction (6 marks)
2. With the aid of diagrams, describe these seven elements of a fault (20 marks)
3.
 - a) Explain the four geological effects caused by faults (8 marks)
 - b) Outline the two types of quarries (4 marks)
 - c) Explain four factors affecting physical weathering process (8 marks)
4.
 - a) Explain six factors affecting chemical weathering process (12 marks)
 - b) Outline four types of geological maps (8 marks)
5.
 - a) With the aid of a diagram, describe four methods used in quarrying (12 marks)
 - b) Describe three elements used in faults recognition (8 marks)