



MACHAKOS UNIVERSITY

University Examinations for 2020/2021

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

SECOND YEAR TERM II EXAMINATION FOR

DIPLOMA IN BUILDING TECHNOLOGY AND CIVIL ENGINEERING

MEASUREMENT

DATE: 7/6/2021

TIME: 8:30 – 11:30 AM

INSTRUCTIONS

ANSWER ALL QUESTIONS

1. Take off all quantities for the roof work shown in Drawing No. 01 including rain water goods (30 marks)
2. Figure 2 shows the substructural works, take off all the quantities. (30 marks)
3.
 - a) Define the following terms
 - i) Prime cost sum
 - ii) Preamble
 - iii) Provisional sum
 - iv) Valuing variations (8 marks)
 - b) Explain the following tendering methods giving one advantage and one disadvantage in each case
 - i) Open tendering
 - ii) Selective tendering (6 marks)
 - c) With the aid of examples in each case explain the following
 - i) Extra over items
 - ii) Deemed to be included items (6 marks)
4.
 - a) List seven sections of a bill of quantities (7 marks)
 - b) List five condition under which contract can be extended (5 marks)
 - c) Give six purpose of bill of quantities (8 marks)