



MACHAKOS UNIVERSITY

University Examinations for 2021/2022

**SCHOOL OF ENGINEERING AND TECHNOLOGY
BUILDING AND CIVIL ENGINEERING DEPARTMENT
FIRST YEAR FIRST TERM EXAMINATION FOR**

CERTIFICATE IN BUILDING TECHNOLOGY MODULE 1

1704/104: CARPENTRY

DATE:

TIME:

INSTRUCTIONS: ANSWER ALL THE FIVE QUESTIONS

1.
 - (a) Explain the difference between a carpenter and a joiner. (6 marks)
 - (b) Name and draw two tools that were used by the old generation. (4 marks)
 - (c) Draw the following tools and name all the parts (10 marks)
 - (i) -jack Plane.
 - (ii) -Bevel Square.
 - (iii) -Tenon saw (9 marks)
2.
 - (a) With aid of neat sketches differentiate between a marking gauge and a mortise Gauge. (10 marks)
 - (b) State TEN safety precautions to be observed in a workshop (10 marks)
3.
 - (a) State and explain THREE types of safety. (10 marks)
 - (b) Make neat sketches of the following tools and name all the parts. (10 marks)
 - Try square
 - Marking gauge
4. Make a neat sketch of a cross-section of a tree trunk, name all the parts and the function of each part. (20 marks)
5.
 - (a) Outline the steps involved in truing up stock (15 marks)
 - (b) Make a neat sketch of a cross- halving joint (5 marks)