



# MACHAKOS UNIVERSITY

University Examinations for 2020/2021

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

SECOND YEAR SEMESTER TWO EXAMINATION FOR

CERTIFICATE IN BUILDING TECHNOLOGY MODULE TWO

1704 JOINERY WORKS

DATE: 11/6/2021

TIME: 8:30 – 11:30 AM

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## INSTRUCTION

**Attempt all the question**

1.
  - a) State three causes of deterioration of materials (6 marks)
  - b) Outline three measures to be taken to prevent material deterioration (6 marks)
  - c) Discuss the following types of glues
    - I. Animal glue (4 marks)
    - II. Casien glue (4 marks)
2.
  - a) Outline design principles of a chair (10 marks)
  - b) Using the above principles sketch a dining chair (10 marks)
3.
  - a)
    - (i) Name 3 classes of joints (3 marks)
    - (ii) Draw two joints in each class (12 marks)
  - b) Differentiate between twin tenons and double tenon (5 marks)
4.
  - a) State four types of doors (4 marks)
  - b) Sketch a panel door (5 marks)
  - c) State 3 functional requirements of a partition (6 marks)
  - d) Sketch and label glazed partition (5 marks)
5.
  - a) With aid of sketches describe 5 types of nails (10 marks)
  - b) Using sketches discuss five types of screws (10 marks)