



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF ENGINEERING AND TECHNOLOGY

**UNIVERSITY EXAMINATIONS FOR THE DEGREE IN SCIENCE IN CONSTRUCTION
MANAGEMENT**

THIRD YEAR RESITS 2020/2021 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

COURSE CODE: TCM 3323

COURSE TITLE: Building Technology Iii

EXAM VENUE: STREAM: BSc CONSTRUCTION MGT

DATE: /11/2020 EXAM SESSION:

DURATION: 2HOURS

Instructions

- 1. Answer question 1 (Compulsory) and ANY other two questions**
- 2. Candidates are advised not to write on question paper**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**

QUESTION ONE

- a) Explain at least THREE alternative building materials of construction applied in Kenya. (9 marks)
- b) Using explain the difference between a night latch and a mortice lock. (3 marks)
- c) Outline the criteria you would use in choosing interior finishes. (8 marks)
- d) i) Outline the procedures for laying out cement sand screed. (8 marks)
ii) List any FOUR tools used for pointing (2 marks)

QUESTION TWO

- a) With the aid of a sketch show the details named below as used in timber stairs.
 - i) Hand rail
 - ii) Baluster
 - iii) Newel. (6 marks)
- b) Using a sketch show the plan details of a quarter turn stairs. (4 marks)
- c) Define the following terms as used in stairs.
 - i) Head room
 - ii) Landing
 - iii) Pitch. (6 marks)
- d) Describe the use of the following terms as used in oil paints
 - i) Under coating
 - ii) Finishing coating (4 marks)

QUESTION THREE

- a) i) Outline the THREE properties of rendering (3 marks)
ii) Sketch a recessed pointing to an external wall finish. (3 marks)

- b) i) Explain any FOUR defects found in plastering work. (4 marks)
- ii) Discuss the circumstances under which acoustic plaster is used as a finish to wall. (3 marks)
- c) i) List any THREE types of rendering. (3 marks)
- ii) Outline the procedure for laying out a terrazzo floor finish (4 marks)

QUESTION FOUR

- a) Distinguish between plastering and rendering. (4 marks)
- b) Outline any FOUR functions of plaster. (4 marks)
- c) What is the disadvantage of positioning chimney outside the building? (2 marks)
- d) Outline the steps to be followed in carrying out smoke test to chimneys. (6 marks)
- e) Discuss any FOUR advantages of cement paints. (4 marks)

QUESTION FIVE

- a) Define the term building code. (2 marks)
- b) State the basic side spaces for habitable structure in relation to plot boundaries. (4 marks)
- c) State the basic requirements for building approval under the Building Code. (8 marks)
- d) Other than the Building Code, discuss other statutory organs under which statutory approvals are subjected. (6 marks)