



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF ENGINEERING AND TECHNOLOGY**

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

**3<sup>RD</sup> YEAR 2<sup>ND</sup> SEMESTER 2023/2024 ACADEMIC YEAR**

**CENTRE: MAIN CAMPUS**

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**COURSE CODE: TCB 1306**

**COURSE TITLE: BUILDING TECHNOLOGY III**

**EXAM VENUE:** **STREAM: BSc. CONSTRUCTION MGT**

**DATE: /04/2024** **EXAM SESSION:**

**DURATION: 2 HOURS**

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**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 (30 MARKS) COMPULSARY**

- a) Define the Building Code and state the basic requirements for building approval under it. (10 marks)
- b) Explain any FOUR emerging building materials in the construction industry stating their applicability. (8 marks)
- c) State the factors affecting the choice of interior finishes. (4 marks)
- d) Describe four types of hinges using sketches. (8 marks)

**QUESTION TWO (20 Marks)**

You have been tasked with the selection of the best paint for a building. Advise the Client on the possibilities, pros and cons. (20 Marks)

**QUESTION THREE (20 marks)**

- a) Define pointing. State the tools used for pointing and sketch a recessed pointing to an external wall finish. (10 Marks)
- b) Distinguish plastering from rendering. (4 Marks)
- c) Discuss the components of a water paint. (6 Marks)

**QUESTION FOUR (20 Marks)**

- a) What procedures must a painter follow when applying paint on a new wooden surface? (6 Marks)
- b) Discuss four imperfections in painting, giving remedy for each. (8 Marks)
- c) You have been assigned to carry out a smoke test to a chimney in a new building. Outline the steps you will follow. (6 Marks)

**QUESTION FIVE (20 Marks)**

- a) What are the functional requirements of a good quality floor finish? (8 Marks)
- b) Sketch the details of a quarter turn stairs. (4 Marks)
- c) Describe the following terms; (8 Marks)
  - i. Chimney
  - ii. Flue
  - iii. Under coating
  - iv. Finishing coating