



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF ENGINEERING AND TECHNOLOGY

**UNIVERSITY EXAMINATIONS FOR THE DEGREE IN SCIENCE IN RENEWABLE
ENERGY TECHNOLOGY AND MANAGEMENT**

**2ND YEAR 1ST SEMESTER UNIVERSITY EXAMINATIONS 2021-2022 ACADEMIC
YEAR**

CENTRE: MAIN CAMPUS

COURSE CODE: TCB 1203

COURSE TITLE: BUILDING CONSTRUCTION TECHNOLOGY I

EXAM VENUE: STREAM: B.Sc. IN CONSTRUCTION MANAGEMENT

DATE: EXAM SESSION: December 2021

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 their answer booklets to the invigilator while in the examination room**

QUESTION 1 (30 Marks) Compulsory

- (a). Highlight four main purposes of site investigation (4 Marks)
- (b). State and explain four preliminary activities that must be put in place before the actual construction commences (6 Marks)
- (c). Briefly explain four functional requirements of a ground floor (8 Marks)
- (d). By use of a suitable sketch, describe three types of shallow foundation that are applicable in any domestic house construction (12 Marks)

QUESTION TWO

- (a). By use of a sketch, describe four types of windows based on methods of opening (10 Marks)
- (b). Describe five methods of demolition (10 Marks)

QUESTION THREE

- (a). Outline five precautions taken before constructing storage for construction materials (5 Marks)
- (b). By use a sketch, describe a solid ground floor (7 Marks)
- (c). Briefly explain four forms of a wall (8 Marks)

QUESTION FOUR

- (a). Draw a neat sketch of a door frame and name its parts (5 Marks)
- (b). By use of a sketch of four courses, illustrate three types of bonds used in brick masonry. (10 Marks)
- (c). Outline five ways through which moisture enter into a building (5 Marks)

QUESTION FIVE

- (a) Define the term timbering. (2 Marks)
- (b) Show timbering to a trench foundation, using a well labeled diagram (8 Marks)
- (c) Briefly describe FIVE types of pitched roofs using neat diagrams (10 Marks)