



TECHNICAL UNIVERSITY OF MOMBASA

SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ARCHITECTURE & BUILT ENVIRONMENT

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ARCHITECTURE

DIPLOMA IN QUANTITY SURVEYING

EAR 2106 BUILDING TECHNOLOGY I

SPECIAL SUPPLEMENTARY EXAMINATION

YEAR ONE SEMESTER TWO

SERIES: MARCH 2025

TIME: 2 HOURS

DATE: MARCH, 2025

Instructions to Candidates

You should have the following for this examination

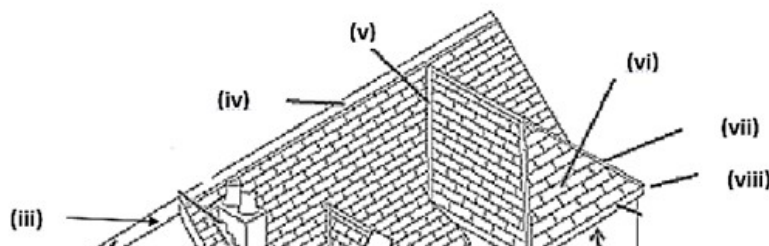
-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

QUESTION ONE (30 MARKS)-COMPULSORY

- a) Name parts of the roof numbered in the image below. (10 marks)



- b) The TWO major methods of building are traditional and modular construction. State FOUR difference between the TWO methods. (8 marks)
- c) With TWO examples for each, List down the different ways that walls can be classified. (6 marks)
- d) Define:
 - i. Temporary Works. (2 marks)
 - ii. Site Shoring. (2 marks)
 - iii. Site Hoarding. (2 marks)

QUESTION TWO (15 MARKS)

- a) Define Site clearance. (2 marks)
- b) List THREE equipment used for site clearance. (3 marks)
- c) Describe FIVE methods of site clearance. (10 marks)

QUESTION THREE (15 MARKS)

- a) Name THREE factors to consider before fabricating formwork. (3 marks)
- b) Using appropriate drawings, describe FOUR types of formwork used in construction. (12 marks)

QUESTION FOUR (15 MARKS)

- a) Name THREE factors to consider when choosing a method of demolition. (3 marks)
- b) Describe SIX methods of demolition. (12 marks)

QUESTION FIVE (15 MARKS)

- a) Name SIX types of roofs. (12 marks)
- b) Draw THREE types of trussed rafters. (3 marks)