



TECHNICAL UNIVERSITY OF MOMBASA

SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ARCHITECTURE & BUILT ENVIRONMENT
UNIVERSITY EXAMINATION FOR:
DIPLOMA IN ARCHITECTURE
EAR 2307: ESTIMATING AND COSTING
SPECIAL AND SUPPLEMENTARY EXAMINATION
YEAR THREE SEMESTER TWO
SERIES: JULY 2025
TIME: 2 HOURS
DATE: JULY 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.

No mobile phones allowed in the exam room

QUESTION ONE (20 MARKS)-COMPULSORY

Making all the necessary assumptions, buildup a unit rate for walling 200mm thick masonry wall on cement and sand mortar (1:3)

QUESTION TWO (20 MARKS)

- a) Compare the concept of leasing an equipment against the cost of owning
- b) Explain FIVE cost associated with owning an equipment.

QUESTION THREE (20 MARKS)

Explain the following terminologies as it relates to cost estimation:

- a) Equipment capabilities (4 marks)
- b) In-direct waste of material (4 marks)
- c) Mobilization cost (4 marks)
- d) Base wage rate (4 marks)
- e) Payload (4 marks)

QUESTION FOUR (20 MARKS)

Explain FIVE differences between job order costing and the standard cost system as models of costing.

QUESTION FIVE (20 MARKS)

- a) Explain FIVE activities associated with equipment planning (10 marks)
- b) Making necessary assumption determine the unit rate of external paint work in an already plastered 200mm thick masonry wall (10 marks)