



TECHNICAL UNIVERSITY OF MOMBASA

SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ARCHITECTURE & BUILT ENVIRONMENT
UNIVERSITY EXAMINATION FOR:
DIPLOMA IN QUANTITY SURVEYING
EQS 2201: MEASUREMENTS II
END OF SEMESTER EXAMINATION
YEAR TWO SEMESTER II

SERIES: APRIL 2022

TIME: 2 HOURS

DATE: APRIL, 2022

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.

Mzee Bakari's proposed Swahili house is to comprise 11No. rental rooms each measuring 12-feet 10 inches by 13-feet 7 inches; and 4No. washroom areas each measuring 3-feet by 6-feet. The floor-to-ceiling height is 3000mm high.

Each rental room is to have a cupboard measuring 1200mm x 600mm x 2100mm high in timber framing and shutters complete with ironmongery; moulded timber dado-rail all-round except across door and window openings; and 40mm diameter timber curtain rail and bearers.

Further, each rental room is to have 1No. 900mm x 2100mm door opening and 1No. 1500mm x 1500mm high window opening; while each washroom is to have 1No. 800mm x 2100mm door opening and 1No. 600mm x 600mm high window opening. The house also has 1200mm x 2100mm high entrance opening; and 900mm x 2100mm high rear opening.

The floor finishes to both rental rooms and washrooms are proposed to be ceramic tiles on cement and sand screed; while interior wall finishes are to be plaster and gloss oil paint although there is to be tiling to 1800mm height in washrooms. The ceiling finishes are to be celotex softboards nailed on timber brandering; and to be painted in oil paint.

QUESTION ONE (30 MARKS) - COMPULSORY

While making realistic assumptions, prepare Bills of Quantities for following items of work for tendering purposes.

- | | |
|----------------------------|----------|
| i) the floor finishes | (7marks) |
| ii) interior wall finishes | (8marks) |
| iii) ceiling finishes | (8marks) |
| iv) exterior wall finishes | (7marks) |

QUESTION TWO (15 MARKS)

Measure all the flush doors and frames; including the decorations and the ironmongery thereof.

QUESTION THREE (15 MARKS)

Given all the windows are timber-framed; glass louvred and aluminium-framed; burglar-proofed and decorated, measure all the windows and the decorations thereof.

QUESTION FOUR (15 MARKS)

Measure all fittings including decorations and ironmongery thereof.

QUESTION FIVE (15 MARKS)

Measure the floor and ceiling finishes if the specifications were terrazzo and gypsum ceiling, respectively.