



TECHNICAL UNIVERSITY OF MOMBASA

SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ARCHITECTURE & BUILT ENVIRONMENT

UNIVERSITY EXAMINATION FOR:
DIPLOMA IN QUANTITY SURVEYING

EQS 2104: MEASUREMENTS I
END OF SEMESTER EXAMINATION

YEAR ONE SEMESTER TWO

SERIES: MAY 2025

TIME: 2 HOURS

DATE: May, 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.

NB: Use the Ground Floor plan in Figure 1 above to answer Questions 1 to 4.

QUESTION ONE (30MARKS) - COMPULSORY

Study the drawing in **Figure 1** provided above, and while making reasonable assumptions, generate quantities for the items of work in substructure.

QUESTION TWO (15MARKS)

Measure all the columns and beams in the concrete superstructure (state your assumptions).

QUESTION THREE (15MARKS)

Measure the element of walling (state your assumptions).

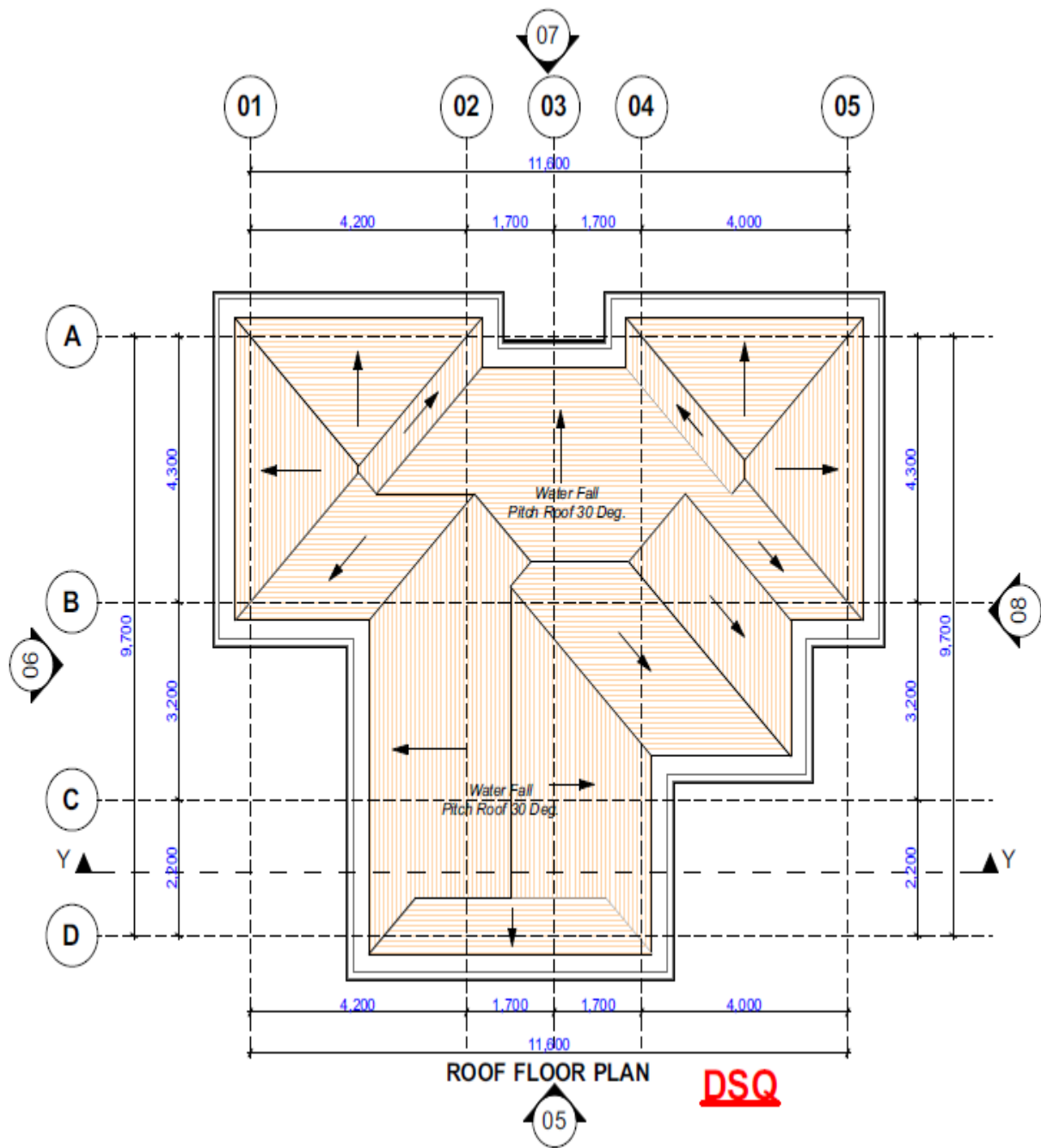


Figure 2

NB: Use the Roof Floor plan in Figure 2 above to answer Questions 4 and 5.

QUESTION FOUR (15MARKS)

Measure the concrete gutters in the concrete superstructure in the drawing **Figure 2** above (state your assumptions).

QUESTION FIVE (15MARKS)

Assuming that the roofing in **Figure 2** above is pitched 22.5 degrees comprising of *dumuzas* roofing sheets on timber trusses, measure both the roof structure and covering.