



TECHNICAL UNIVERSITY OF MOMBASA

SCHOOL OF ENGINEERING AND TECHNOLOGY

Department of BUILDING & Civil engineering

UNIVERSITY EXAMINATION FOR:

BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

TCV 4317 : CONSTRUCTION TECHNOLOGY III

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: MARCH 2025

TIME: 2 HOURS

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 (COMPULSORY)

- a) What are suspended ceilings? List any two types of suspended ceilings (2 Marks)
- b) Using a well labeled diagram, give the typical details of a suspended ceiling grid layout. (5 Marks)
- c) What are ribbed floors and what are their advantages? (5 Marks)
- d) Define and differentiate between hollow pot and waffle floors using well labeled diagrams. (8 Marks)

ANSWER ANY TWO QUESTIONS FROM THIS SECTION

QUESTION TWO (20 Marks)

- a) List down THREE functional requirements of an internal wall. (3 Marks)
- b) What is a reinforced brick partition wall and where is it used? (2 Marks)
- c) Draw a detailed well labeled timber partition walls (5 Marks)
- d) Discuss any FIVE defects found in plastered work and for each, give its remedy. (10 Marks)



QUESTION THREE (20 Marks)

Discuss in detail, the process followed in installation of floor tiles.

QUESTION FOUR (20 Marks)

- a) What is painting and what are its objectives? (2 Marks)
- b) Discuss the FOUR main components in paint. (8 Marks)
- c) Discuss typical defects found on painted surfaces and state their remedies (10 Marks)

QUESTION FIVE (20 Marks)

- a) What are the primary functions of stairs? (2 Marks)
- b) In which situation would you make use of an alternating tread stair? (2 Marks)
- c) List any SIX general stair requirements one should put into consideration in stair construction. (6 Marks)
- d) Draw a well labeled diagram of a timber stair indicating details of a bullnose bottom step and splayed nosing. (10 Marks)