



TECHNICAL UNIVERSITY OF MOMBASA

SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF BUILDING & CIVIL ENGINEERING
UNIVERSITY EXAMINATION FOR:

BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

TCV 4412: CONSTRUCTION MANAGEMENT I

END OF SEMESTER EXAMINATION

SERIES: JANUARY 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) 30 Marks

- a) Outline the following management functions;
 - i) Planning,
 - ii) Organizing,
 - iii) Controlling,
 - iv) Motivating and
 - v) Coordinating. (10 marks)
- b) Explain the following management principles;
 - i) Harmony,
 - ii) Decision by exception,
 - iii) Espirit de corps,
 - iv) Specialisation
 - v) Equity,
 - vi) Balance of power, Authority and responsibility,
 - vii) Remuneration. (10marks)
- c) Outline the three leadership styles. (10marks)

QUESTION TWO, (20marks)

Explain the following terms as applies to organisations;

- i) Power and Authority,
- ii) Responsibility and accountability,
- iii) Formal and informal relations,
- iv) Bureaucracy,
- v) Line and staff,
- vi) Span of control.

QUESTION THREE, (20marks)

Outline the principles employed in matrix organisations, and draw an organisation chart for a firm with three projects, each of sh. 1.8bcontract sum and with contract duration of 38months.

QUESTION FOUR, (20marks)

- a) above(4(a) Draw a method statement for the following site activities;
- i) Basement excavations-----420m³
 - ii) Concreting (1:2:4 ---20mm aggregates) in foundation pads.
 - iii) Reinforcement bars y16 -----240kg
 - iv) Reinforcement y12 -----480kg
 - v) Column shuttering -----360m²
- b) Draw a programme for the items noted in the work schedule

QUESTION FIVE, (20marks)

- a) Discuss factors which influence, motivation. (8marks)
- b) Explain the following motivation theories;
 - i) Two facto theory by Herzberg,
 - ii) Theory X, and theory Y (12marks)