



TECHNICAL UNIVERSITY OF MOMBASA

# Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CBCE)

EBC 1104: CONSTRUCTION MANAGEMENT

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2014

TIME ALLOWED: 2 HOURS

**Instructions to Candidates:**

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions. Answer any **THREE** questions of the **FIVE** questions

All questions carry equal marks

Maximum marks for each part of a question are as shown

Use neat, large and well labeled diagrams where required  
This paper consists of **THREE** printed pages

### Question One

- a) Briefly explain the nature of the following construction works:
  - (i) Building construction works
  - (ii) Civil Engineering Construction works

**(6 marks)**
- b) (i) Define construction management.  
(ii) State TWO objectives for construction management 

**(4 marks)**
- c) Briefly describe THREE types of contractors in construction works 

**(6 marks)**
- d) State any FOUR professional bodies involved in construction works in Kenya 

**(4 marks)**

### Question Two

- a) Briefly explain the following principles of management:
  - (i) Espirit de corps
  - (ii) Scalar chain
  - (iii) Division of work

**(6 marks)**
- b) Outline the FOUR functions of management 

**(4 marks)**
- c) Briefly explain TWO types of organizational structure 

**(6 marks)**
- d) Define the term organizational structure 

**(4 marks)**

### Question Three

- a) State THREE factors that influence the Design of organizational structure. 

**(6 marks)**
- b) State the difference between main-contractor and a sub-contractor 

**(4 marks)**
- c) State any SIX types of specialized construction works 

**(6 marks)**
- d) State FOUR reasons for carrying out site layout 

**(4 marks)**

### Question Four

Define the following as applied to construction management:

- a) Span of control
  - b) Leadership
  - c) Motivation
  - d) Discipline
  - e) Promotion
- (20 marks)**

### **Question Five**

Outline the role of the following parties in construction works:

- a) Client
- b) Site Manager
- c) Architect
- d) Carpenter
- e) Quantity Surveyor