



TECHNICAL UNIVERSITY OF MOMBASA
**Faculty of Engineering &
Technology**

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
CERTIFICATE IN BUILDING & CIVIL ENGINEERING (CBCE 13S)

EBC 1101: CONSTRUCTION MANAGEMENT I

END OF SEMESTER EXAMINATION

SERIES: APRIL 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
This paper consists of **TWO** printed pages

Question One

- a) Using a well labeled ORGANIZATIONAL CHART, illustrate a suitable organization structure for a medium size construction firm. **(8 marks)**
- b) In reference to the organization chart draw in 1(a) show the FOUR types of relationships that exist amongst the staffs citing real cases in your chart. **(8 marks)**
- c) Differentiate the following terms as used in the construction industry.
 - (i) Team spirit
 - (ii) Motivation **(4 marks)**

Question Two

- a) In the construction industry, constructors are broadly classified into THREE categories; list and describe each of the THREE types of contractors which may be considered in a construction project development. **(10 marks)**
- b) Describe the nature of the construction industry in the following TWO aspects giving examples where applicable:
 - (i) Goods and services
 - (ii) Industrial organization **(10 marks)**

Question Three

- a) Outline any FIVE contract documents which may/or must form part of every construction contract. **(10 marks)**
- b) Define the following terms as used in the organization chart:
 - (i) Division of labour
 - (ii) Specialization
 - (iii) Chain of command
 - (iv) Span of control
 - (v) Organization **(10 marks)**

Question Four

- a) The construction industry is governed by different professional parties which are regulated by different professional bodies. List FIVE professional parties citing the professional body that regulates the code of ethics of its members and the initials used i.e. **(10 marks)**

| PROFESSIONAL PARTY | PROFESSIONAL BODY | INITIALS |
|--------------------|-------------------|----------|
| | | |

- b) Briefly discuss the merits and demerits of a matrix (project based) organization structures. **(10 marks)**

Question Five

- a) Briefly explain any FIVE construction contracts used in the construction industry. **(10 marks)**
- b) Describe the “scope of construction work” as used in the construction industry. **(10 marks)**