



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

DEPARTMENT OF BUILDING & CIVIL ENGINEERING
DIPLOMA IN BUILDING & CIVIL ENGINEERING (DBCE 13M)

EBC 2301: CONSTRUCTION MANAGEMENT

END OF SEMESTER EXAMINATION

SERIES: APRIL 2015

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

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) (i) Define construction management (2 marks)
(ii) State THREE objectives of construction management (3 marks)
- b) Give THREE examples for each of the following types of construction works:
(i) Building works
(ii) Civil Engineering Works (5 marks)
- c) Compare and contrast the scope and nature of the building and Civil Engineering Works (10 marks)

Question Two

- a) Briefly explain how one can start business in the construction industry (5 marks)
- b) Outline THREE types of constructors in the construction industry (10 marks)
- c) Define a subcontractor and state THREE specialties which enjoy subcontracting opportunities (5 marks)

Question Three

- a) Briefly explain the following principles of organization:
(i) Unity of objectives
(ii) Specialization
(iii) Responsibility and authority
(iv) Unit of command (10 marks)
- b) Briefly explain the role of the following during construction works:
(i) Site agent
(ii) Clerk of works
(iii) Architecture
(iv) The client
(v) The supplier (10 marks)

Question Four

- a) Briefly explain the FOUR fundamentals of worker's motivation (8 marks)
- b) Briefly explain the THREE fundamentals of discipline at work place (6 marks)
- c) Briefly explain the following as used in construction management (6 marks)
(i) Bar charts
(ii) Critical path network

Question Five

- a) Outline the importance of any THREE construct documents as used in construction works **(6 marks)**
- b) Briefly explain each of the following types of contracts: **(9 marks)**
- (i)** Package deal contract
 - (ii)** Cost reimbursement contract
 - (iii)** Target contract
- c) (i) State any TWO essential amenities on a construction site **(2 marks)**
- (ii) State THREE reasons for fencing a construction site **(3 marks)**