



**TECHNICAL UNIVERSITY OF MOMBASA
SCHOOL OF ENGINEERING AND TECHNOLOGY**

Department of BUILDING & Civil engineering

UNIVERSITY EXAMINATION FOR:

CERTIFICATE IN BUILDING AND CIVIL ENGINEERING

EBC 1201 : CONSTRUCTION MANAGEMENT

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: Nov 2024

TIME: 2 HOURS

DATE: Pick Date Nov 2024

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass, a scientific calculator and student ID

This paper consists of **FIVE** questions. Attempt any **THREE** questions.

Marks for each question are as indicated.

Do not write on the question paper.

Question ONE.

(a) Distinguish the following as used in the construction industry:-

- (i) Authority and power
- (ii) Accountability and responsibility
- (iii) Chain of command and span of control
- (iv) Division of labour and specialization (8 marks)

(b) Briefly explain any **FOUR** basic functions of management (8 marks)

(c) Define the term **management** and highlight its **THREE** characteristics (4 marks)

Question 2.

(a) Describe **FIVE** conditions under which negotiated method of tendering may be deemed suitable for tendering certain construction projects. (10 marks)

(b) Explain **FIVE** factors influencing the span of control of any construction firm (10 marks)



Question 3.

(a) Briefly explain FOUR programming methods used in scheduling construction activities in any construction project. (8 marks)

(b) Prepare the network analysis diagram for the construction project given below (12 marks)

ACTIVITY	BEGINNING/END EVENT	DURATION
A	1-2	7
B	2-3	10
C	2-4	6
D	2-5	8
E	3-6	6
F	4-6	7
G	4-7	6
H	5-8	6
J	6-9	12
L	8-9	10
M	9-11	2
N	10-12	10
O	12-13	13
P	11-13	10

Question 4.

(a) Highlight FIVE roles of each of the following bodies connected to construction work

(i) NCA

(ii) NEMA

(iii) AAK

(iv) IEK/EBK

(20 marks)

Question 5.

(a) Using a well labeled organizational chart, describe the various relationships that exist in any construction firm. (6 marks)

(b) **China Road and Bridge Company** is a multinational construction company handling complex projects within and outside Africa, draw an organizational chart that displays how authority flows within its functional departments (10 marks)



(c) Highlight FOUR conditions under which this type of organizational chart is deemed useful (4 marks)