

TECHNICAL UNIVERSITY OF MOMBASA Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING CERTIFICATE IN BUILDING & CIVIL ENGINEERING

EBC 1201: CONSTRUCTION MANAGEMENT

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 question **ONE** (**Compulsory**) and any other **TWO** questions All questions carry equal marks

Maximum marks for each part of a question are as shown This paper consists of **THREE** printed pages

Question One

a)	(i) Illu	strate the Abraham Maslow pyramid of needs listing each level of needs	
	(ii) Di	fferentiate between intrinsic and extrinsic incentives.	
	(iii) De	escribe the fundamentals of motivation	(17 marks)
b)	List an	d describe the forms of tendering giving one advantage of each.	(10 marks)
c)	(i) (ii)	be each of the following: Conditions of contract Agreement Tender form	(3 marks)
Qu	estion '	Гwo	
a)	(i)	be the following types of contractors: Nominated sub-contractor Appointed sub contractor	(10 marks)
b)	Describe the following terms:		
	(ii) (iii)	Provisional sum Defect liability period Variation Interim certificate Bill of quantity	(10 marks)
Qu	estion '	Three	
a)	(i) (ii)	explain the following types of contracts; Package deal contract Cost reimbursement contract Target cost contract	(12 marks)
b)	(i) (ii)	e the duties of the following parties on a construction site: Architect Clerk of works	(2
	(111)	Store keeper	(3 marks)
c)	Define	the term method statement.	(2 marks)
d)	Outlin	e the stages involved in pre-tender planning.	(3 marks)
Qu	estion	Four	

a) Give a list of members of the following teams

	(i) Design team(ii) Contractors team	(4 marks)
	Outline the considerations applicable in the use of a PLANT on site. Give reasons why construction planning is necessary.	(5 marks) (4 marks)
d)	List any FIVE factors influencing tendering policy.	(5 marks)
e)	Outline the characteristics of a good man in contract planning.	(2 marks)

Question Five

Table 1 shows the activities and durations of a construction project:

- **a)** Draw the network diagram showing the earliest and latest possible times
- **b)** Determine the critical path
- c) Determine the total project float

Activit	Operatio	Duration
y	n	(Days)
1-2	A	6
1-6	В	5
2 – 3	С	13
2-4	D	4
3 – 5	E	11
4 – 5	F	6
6-7	G	11
5-8	Н	3
7-8	Ι	15

(20 marks)