TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering and Technology

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING Faculty of Engineering and Technology in Conjunction with Kenya Institute of Highways & Building Technology (KIHBT)

HIGHER DIPLOMA IN TECHNOLOGY ELECTRICAL POWER ENGINEERING

EEP 2309: ESTIMATING, TENDERING AND EGINEERING SERVICES CONTRACTS

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2016 TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- 1. You should have the following for this examination
 - Answer booklet
 - Electronic calculator
 - Student ID
 - Examination pass
- 2. This paper consists of **FIVE** questions.
- 3. Answer **ANY THREE** questions.
- 4. All questions carry equal marks.
- 5. Do not write on the question paper This paper consists of **THREE** printed pages

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PAPER TWO

QUESTION ONE

1.	Distinguish the following program ordering and associated documentation for ma	ish the following program ordering and associated documentation for material supplies to				
	contracting companies					
	i. Purchase order					
	ii. Quotation					
	iii. Delivery note					
	iv. Invoice	(8mks)				
2.	Define the following in project site control and administration					
	i. Work measurement					
	ii. Method study	(4mks)				
3.	State the objectives of b(i) and b(ii) above	(4mks)				
4.	Explain the following procedures in details in project site administration					
	i. Formal meetings					
	ii. Adhoc meetings	(4mks)				
QUE	STION TWO					
1.	In relation to construction site meetings for Adhoc meetings, state;					
	i. The purposeii. The convenor					
		(6mlm)				
2	1	(6mks)				
۷.	 Explain why each of the following meetings may be preferred to over the other in a construction site. i. Formal meeting 					
	ii. Adhoc meeting	(6mks)				
3.	Explain the term 'work measurement' as a technique of measuring work in work	· /				
5.	Explain the term work measurement as a teeninque of measuring work in work	(2mks)				
4.	4. Explain the following techniques of measuring physical work.					
	i. Piece work					
	ii. Hourly rate					
	iii. Fixed time	(6mks)				
QUESTION THREE						
1.	Define;					
	i. TORT					
	ii. LAW OF TORT	(2mks)				
2.	Explain the following types of TORT	. /				
	i. Negligence TORT					
	ii. Strictly liability TORT					
	iii. Intentional TORT	(5mks)				
3.	Explain the following sources of law					

i. Judiciary precedent

	ii.	Custom				
	iii.	Equity	(5mks)			
4.	Expla	in the following clauses in solving disputes in contracts				
	i.	Choice of law and forum clause				
	ii.	Arbitration clause				
	iii.	Liquidated damages clause	(5mks)			
5.	Expla	in the following essentials for a valid contract				
	i.	Consideration				
	ii.	Intention to create legal obligations	(3mks)			
QUESTION FOUR						
1.	Define	e tender appraisal	(2mks)			
2.	Describe the following terms as used in supplies department of any organization.					
	i.	Trade discount				
	ii.	Specification				
	iii.	Profor ma invoice	(6mks)			
3.	Distin	guish the following identities in engineering contracts				
	i.	Main contractor				
	ii.	Clerk of work				
	iii.	Sub contractor	(6mks)			
4.	. Explain the following terms as implied in contracts					
	i.	Duress				
	ii.	Mistake				
	iii.	Mis-representation	(3mks)			
QUESTION FIVE						
1.	Using	suitable sketches explain the organization of the following planning tools,				
	i.	C.P.M				
	ii.	W.B.S				
	iii.	Grantt chart	(3mks)			
2.	Define	e the following terminologies as used in network analysis for project planni	ng for implementation.			
	i.	Dummy project				

- i. Dummy project
- ii. Events
- iii. Float
- iv. Network
- 3. An organization undertook a project with activities as listed in the table 1 below.

(4mks)

ACTIVITY	DURATION MONTHS	NODE NUMBERS
Α	2	1-2
В	3	1-3
С	2	1-4
D	5	2-5
Е	0	3-6
F	4	3-7
G	3	4-7
Н	3	5-6
Ι	5	5-8
J	2	6-9
K	2	6-10
L	3	7-10
М	2	8-9
N	3	9-10
0	2	10-11

By using Network analysis;

Determine;

- i. The project duration
- ii. The critical path in the network
- iii. The floats for activities F and H

(13mks)