2305/306 CONSTRUCTION MANAGEMENT Oct./Nov. 2010 Time: 3 hours

THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN BUILDING

CONSTRUCTION MANAGEMENT

3 hours

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination:

Answer booklet; Drawing instruments.

Answer any FIVE of the following EIGHT questions.

All questions carry equal marks.

Maximum marks for each part of a question are as shown.

This paper consists of 5 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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*	(a)	State five powers of a factory inspector.		(10 marks)		
	(b)		reference to management of a construction project, explain the mean following terms:	ing		
		(i)	Leadership;			
		(ii)	Motivation;			
		(iii)	Team spirit.	(6 marks)		
(c) List four items of information which need to be recorded in the cons						
	185A	site da	illy diary.	(4 marks)		
	(a)	Outline the roles of the following in the construction industry:-				
		(i)	Architect;			
		(ii)	Quantity Surveyor;			
		(iii)	Clerk of works;			
		(iv)	Supplier;			
		(v)	Structural Engineer.	(10 marks		
	(b)	Explain the following in relation to construction contracts:				
		(i)	Defects liability period;			
		(ii)	Preliminaries;			
		(iii)	Interim Certificate;			
		(iv)	Bill of Quantities;			
		(v)	Retention.	(10 marks		
	(a)	Explain four control measures that need to be taken in order to minimis				
		pilfering and theft of materials on site.		(8 marks)		
	(b)	State two essential of an efficient filing system.		(2 marks)		

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(c) Table 1 shows the activity, duration and number of operatives required for a project. Determine the project duration by means of network diagram and indicate the critical path. (10 marks)

Table 1

Activity	Duration (in weeks)	No. of Operatives (per week)
1- 2	4	4
1 - 3	3	- 6
1- 4	6	5
2-7	7	6
2-5	0	0
3-5	5	4
4-5	4	3
4-6	2	2
5 - 7	5	7
6 -7	3	4

4. (a) Outline the procedure of pre-tender planning.

(3 marks)

- (b) Explain two benefits of work study for each of the following:
 - (i) the organisation;
 - (ii) the supervisor;
 - (iii) the operative.

(3 marks)

(c) The work of a carpenter to fix a door has been timed and rated as shown in table 2. Table 3 shows the allowances. Calculate the standard time.

(14 marks)

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NO.	ELEMENT	OR	WR
1	Collect tools and start		8.00
2	Measure opening	90	8.02
3	Prepare timber (lining)	80	8.12
4	Form holes in walls	80	8.32
5	Fix lining	90	8.44
6	Prepare to fix hinges	80	8.50
7	Hang door	85	9.10
8	Fix architraves	90	9.14
9	Fix locks	95	9.34

Table 3

No	Total Allowance	
1	25	
2	5	
3	10	

- 5. (a) Explain the objectives of the following in books of accounts:
 - (i) Trial balance;
 - (ii) Final account;
 - (iii) Trading account.

(6 marks)

- (b) List two types of each of the following:
 - (i) Financial incentives:
 - (ii) Non-financial incentives.

(2 marks)

- (c) Define the following as used in accounting:
 - (i) Fixed assets;
 - (ii) Intangible assets;
 - (iii) Liabilities;
 - (iv) Current liabilities.

(4 marks)

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(d)	Differentiate between the following as used in business:			
	(i) Sole trader and partnership;			
	ALBAN CONTRACTOR MANAGEMENT OF CONTRACTOR CO			
	(iv) Deposit account and current account.			
		(8 marks)		
(a)	Explain three remedies for a breach of contract.	(6 marks)		
(b)	Outline three defences which a defendant may put forward for an action	of		
13-70	"trespass to land".	(6 marks)		
(c)	Outline four ways of terminating an offer.	(8 marks)		
(a)	Define the following as used in property ownership:			
	(i) Lease;			
	(ii) Mortgage;	1007 200		
	(iii) Freehold.	(6 marks)		
(b)	List five sources of Law in Kenya.	(5 marks)		
(c)	Explain three ways in which a dispute may be referred to arbitration.	(9 marks)		
(a)	State five aspects that are included in contract documents.	(5 marks)		
(b)	Explain the following documents as used in the supply of materials on a construction site:			
	(i) Advice Note;			
	(ii) Delivery Note;			
	(iii) Invoice;			
	(iv) Requisition;	1028 100		
	(v) Materials record book	(10 marks)		
(c)	List five causes of accidents on a construction site.	(5 marks)		
	(a) (b) (c) (a) (b) (b)	(i) Sole trader and partnership; (ii) Ordinary shares and preference shares; (iii) Public company and private company; (iv) Deposit account and current account. (a) Explain three remedies for a breach of contract. (b) Outline three defences which a defendant may put forward for an action "trespass to land". (c) Outline four ways of terminating an offer. (a) Define the following as used in property ownership: (i) Lease; (ii) Mortgage; (iii) Freehold. (b) List five sources of Law in Kenya. (c) Explain three ways in which a dispute may be referred to arbitration. (a) State five aspects that are included in contract documents. (b) Explain the following documents as used in the supply of materials on a construction site: (i) Advice Note; (ii) Delivery Note; (iii) Invoice; (iv) Requisition; (v) Materials record book		