Name:	Index No.
2306/306 CONSTRUCTION MANAGEMENT	Candidate's Signature:
Oct/ Nov. 2014	Date:



THE KENYA NATIONAL EXAMINATIONS COUNCIL.

DIPLOMA IN QUANTITY SURVEYING

CONSTRUCTION MANAGEMENT

3 hours

INSTRUCTIONS TO CANDIDATES

Time: 3 hours

Write your name and index number in the spaces provided above.

Sign and write the date of examination in the spaces provided above.

You should have a pocket calculator/ mathematics tables for this examination.

Answer FIVE of the following EIGHT questions in the spaces provided in this question paper.

All questions carry equal marks.

Candidates should answer the questions in English.

For Examiner's Use Only

	Question	1	2	3	4	5	6	7	8	TOTAL SCORE
-	Candidate's Score		13.79							

This paper consists of 16 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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Turn over

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1.	(a)	Highlight four roles of each of the following organisations connected industry:	with construction
		(i) Architectural Association of Kenya;	
		(ii) Kenya Bureau of Standards.	
			(8 marks)
	(b)	Explain four contributions of the construction industry to the national	
			(8 marks)
	(c)	Differentiate between planning and organising.	(4 marks)
2.	(a)	Explain five ways of motivating workers.	(10 marks)
	(b)	Outline four qualities of a leader.	(6 marks)
	(c)	Distinguish selective tendering from serial tendering.	(4 marks)
3.	(a)	Highlight four activities done during each of the following planning st construction process:	ages in the
		(i) pre-tender;	
		(ii) pre-contract;	
		(iii) contract.	
			(12 marks)
	(b)	State six factors considered when planning a site layout.	(3 marks)
	(c)	Describe each of the following contract documents:	
		(i) bill of quantities;	
		(ii) specifications.	9945
			(5 marks)
4.	(a)	State six documents used in material procurement.	(3 marks)
	(b)	Highlight five ways of enhancing security of materials on site.	(5 marks)

(c) Using the data in table 1, calculate the standard time of the activity.

(12 marks)

Table 1

ACTIVITY	OBSERVED RATING (%)	WATCH READING	ALLOWANCE	
Check time	PER EN PU	00.00		
1	90	5.25	21	
2	95	12.75	23	
3	80	21.30	25	
Talk to a friend		23.55		
4	95	30.25	20	
5	105	35.45	22	
San Lauren	100	40.25	21	
2	95	47.95	23	
Sit to rest		49.95		
3	90	58.65	25	
4	105	65.30	20	
5	100	72.50	22	
Check time		79.00	111111111111	

- (a) Differentiate between a National Hospital Insurance Fund and a National Social Security Fund. (4 marks)
 - (b) Explain four filing systems used in an organisation. (8 marks)
 - (c) Explain four roles of trade unions in the construction industry. (8 marks)
- (a) Highlight four provisions of the Occupational Safety and Health Act on each of the following:
 - (i) health;
 - (ii) welfare:
 - (iii) safety.

(12 marks)

(b) Distinguish apprenticeship from inhouse training.

(4 marks)

- (c) Explain each of the following leadership styles:
 - (i) autocratic;
 - (ii) democratic.

(4 marks)

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7. Use the information given in table 2 to:

(a) draw an arrow network diagram.

(9 marks)

- (b) determine:
- (i) overall duration of the project;
- (ii) critical activities;
- (iii) analysis sheet shown in earliest and latest start and finish times;
- (iv) total float.

(11 marks)

Table 2

ACTIVITY	EVENT	DURATION (WEEKS)	
A	1 - 2	3	
В	2-3	8	
C	2-4	5	
D	3-5	0	
E	4-5	0	
F	5-7	7	
G	3-6	5	
H	4-8	4	
I	8 - 10	10	
J	8 - 11	6	
K	6-9	6	
L	7-9	4	
M	9-12	8	
N	11 - 12	2	
0	10 - 12	10	

8. (a) State six training techniques for training personnel.

- (3 marks)
- (b) Explain three methods of remunerations to workers in an organisation.
- (6 marks)
- (c) Explain the procedure for recruiting workers for an organisation.
- (11 marks)