Name:	Index No.
2306/305	Candidate's Signature:
BUILDING ECONOMICS, CONSTRUCTION	
LAW, ESTIMATING AND COSTING	Date:
Oct./ Nov. 2014	



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN QUANTITY SURVEYING

BUILDING ECONOMICS, CONSTRUCTION LAW, ESTIMATING AND COSTING

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 scientific calculator for this examination.

This paper consists of EIGHT questions in THREE sections; A, B and C.

Answer FIVE questions choosing TWO questions from section A, ONE question from section B and TWO questions from section C.

ALL questions carry equal marks.

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

Candidates should answer the questions in English.

For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
		20	
A	E L. COL	20	
В		20	
		20	
С	and a	20	
T	TOTAL SCORE		

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.

SECTION A: BUILDING ECONOMICS

Answer any TWO questions from this section.

1.	(a)	State three major purposes of cost control in construction industry.	(3 marks)
	(b)	Outline four factors with cost implications which may influence the selection for project development.	on of a site (6 marks)
	(c)	Using three construction elements, explain how increased storey height wou cost of a building.	ld affect the (6 marks)
	(d)	Briefly explain the following types of firms:	
		(i) sole proprietorship; (ii) limited partnership.	
			(5 marks)
2.	(a)	Explain four methods of valuing landed properties.	(10 marks)
	(b)	Outline five major factors which may influence landed values.	(10 marks)
3.	(a)	Highlight six characteristics of a perfect competition in a market.	(9 marks)
	(b)	Outline four features of labour as a factor of production.	(6 marks)
	(c)	Explain the following methods of credit control by Central Bank of Kenya:	
		(i) bank rate policy; (ii) open market operations.	(5 marks)
		SECTION B: CONSTRUCTION LAW	
		Answer any ONE questions from this section in the spaces provided.	
4.	(a)	(i) Name six sources of law in Kenya.	
		(ii) List the hierarchy of courts system in Kenya in descending order.	(8 marks)
	(b)	Describe the following forms of contracts applicable in sale of land:	
		(i) agreement;	
		(ii) memorandum;	
		(iii) enforcement.	(12 marks)
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5.	(a)	Expla	in the following as used in the law of torts:	
		(i)	tress-pass;	
		(ii)	negligence;	
		(iii)	vicarious liability;	
		(iv)	independent contractor.	
				(8 marks)
	(b)	(i)	Outline four factors considered in breach of duty.	(6 marks)
		(ii)	Outline four forms of remedies for breach of contract.	(6 marks)
			SECTION C: ESTIMATING AND COSTING	
		An	swer any TWO questions from this section in the spaces provided. Use DATA given in Appendix "A"	
6.	(a)	List	four sources of cost information available to the estimator for pricing	g. (2 marks)
	(b)	proje	duration of completing a contract was computed to be 24 months. To act was estimated to be ksh. 500 million. Price the following items in minaries section:	
		(i) (ii)	fencing and hoarding, taking the perimeter of 100 m length; water for the site.	
				(12 marks)
	(c)	Outli	ine four design variables that affect the cost of a building.	(6 marks)
7.			ata given in appendix "A" build up a unit rate for 150 mm thick vibra	
	сопс	crete (1:	2:4) in suspended slab (per m ²).	(20 marks)
8.	(a)	(i)	Outline four methods of valuing variations.	
		(ii)	State six items which are not subjected to retention when preparing	ng valuations. (9 marks)
	(b)		ng the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the following the data given in appendix "A" build up a unit rate for the data given in a unit rate given in a	20T2 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	(b)	Usin	ng the data given in appendix "A" build up a unit rate for the following	ng items

Appendix A

CONCRETE:	Kshs.	Cts.
Cement per 50 kg bag	800	00
Sand per tonne	1200	00
Ballast per tonne	1200	00
Hiring rate of 10/1 mixer per day including running charges (output 2.5 m ³ / _{hr} per day)	6000	00
Hiring rate of vibrator inclusive of running charges per day		00
Density of cement 1440 kg/m ³		
Density of sand 1500 kg/m ³		
Density of ballast 1600 kg/m ³		
NATURAL STONE WALL		
Stone 225 × 225 Ndarugu dressed	40	00
Transport cost for 1 trip of stones 300 pieces using 7 tonne lorry	5000	00
Skilled labour per hour	90	00
Unskilled labour per hour	40	00
Gang of 1 skilled to 3 unskilled to lay 1m2 of stone wall		

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