

1704/203
BUILDING CONSTRUCTION II AND
COMPUTER AIDED DESIGN
Oct./Nov. 2018
Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

CRAFT CERTIFICATE IN BUILDING TECHNOLOGY MODULE II

BUILDING CONSTRUCTION II AND COMPUTER AIDED DESIGN

3 hours

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination:

Answer booklet;

A, printing papers;

Drawing instruments:

Compact disk (CD);

Computer Installed with CADD software.

This paper consists of SEVEN questions in TWO sections; A and B.

Answer FIVE questions choosing THREE questions from Section A, TWO questions from section B. All questions carry equal marks.

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

Candidates should answer the questions in English.

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This paper consists of 4 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 CONSTRUCTION II

Answer THREE questions from this section.

y.	(a)	Defin	e the following terms used in chimney construction:	
		(i)	fire place;	
		(ii)	flue;	
		(iii)	hearth;	
		(iv)	throat.	
	4			(4 marks)
	(b)	Sketc	h and label a detail to show the fixing of a window pane using putty.	(6 marks)
	(c)	Describe the following types of coats in painting of new work:		
		(i)	priming coat;	
		(ii)	under coat;	
		(iii)	finish.	
				(6 marks)
	(4)	State	four functional requirements of a fireplace, flue and chimney construc	tion
	(d)	State	four functional requirements of a freplace, frue and chiffiney construc	(4 marks)
				A. C.
2	(a)	Sketc	h and label a ledged, braced and batterned door.	(9 marks)
	(b)	Name six components of a truss.		(3 marks)
	(0)	THOMP	saa components of a muss.	(5 marks)
	(c)	Outline four advantages of precast concrete stairs. (
3.	(a)	Define the following terms in staircase construction:		
		753	and and the second seco	
		(i) (ii)	goings; string;	.)
		(iii)	balusters; AN 2013	#
		(iv)	Figures	1
		(v)	nosing	
		72	Bus Als Allered	(5 marks)
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	(b)	Outline two functions of a staircase.		(4 marks)
	(c)	Define the term 'scaffolding'. (I mai		
	(d)	Describe the following types of scaffolds:		
		(i)	patent scaffold;	
		(ii)	suspended scaffold.	

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(10 marks)

- 4. (a) Define the following terms:
 - (i) plastering;

(ii) rendering.

(2 marks)

(b) Describe the procedure for plastering a masonry wall.

(8 marks)

(c) Sketch a typical eave detail.

(10 marks)

SECTION B: COMPUTER AIDED DRAWING AND DRAFTING

Answer TWO questions from this section.

- Using CADD software, draw and label a typical strip foundation detail. Print the drawing to a scale of 1:10 on an A₃ paper. (20 marks)
- 6. Using CADD software and drawing no. 01 draw the layout floor plan to include the following:
 - (i) doors and windows;
 - (ii) sanitary fittings;
 - (iii) dimensions.

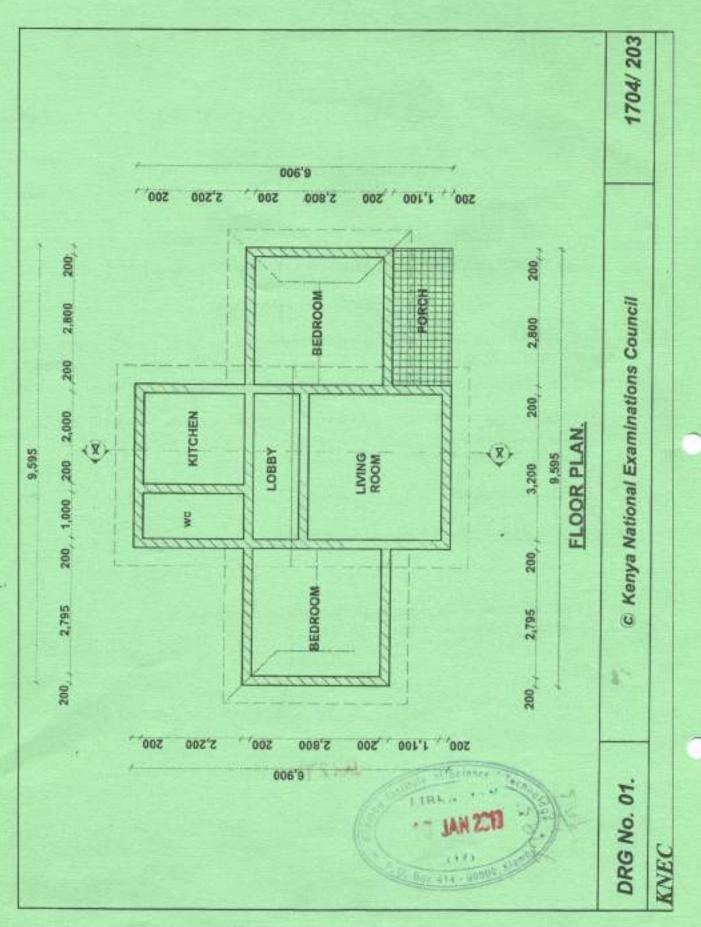
Print the drawing to a scale of 1:100 on an A, paper.

(20 marks)

Using CADD software and drawing No.01 draw and label section X-X.
 Print the drawing to a scale of 1:50 on an A, paper.

(20 marks)





THIS IS THE LAST PRINTED PAGE.

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