1704/203
BUILDING CONSTRUCTION II
AND COMPUTER AIDED DESIGN
June/July 2021
Time: 3 hours

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RAMOGI INSTITUTE OF ADVANCED TECHNOLOGY P. O. Box 1738, KISUMU



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;

Computer with CD writer loaded with CAD software,

Scientific calculator/Mathematical table;

Blank re-writable CD:

A3 printing paper.

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

Answer THREE questions from section A and TWO questions from section B. Question 5 in section B is compulsory.

All questions carry equal marks.

Candidates should answer the questions in English.

This paper consists of 5 printed pages.

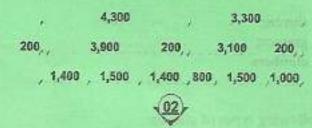
Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

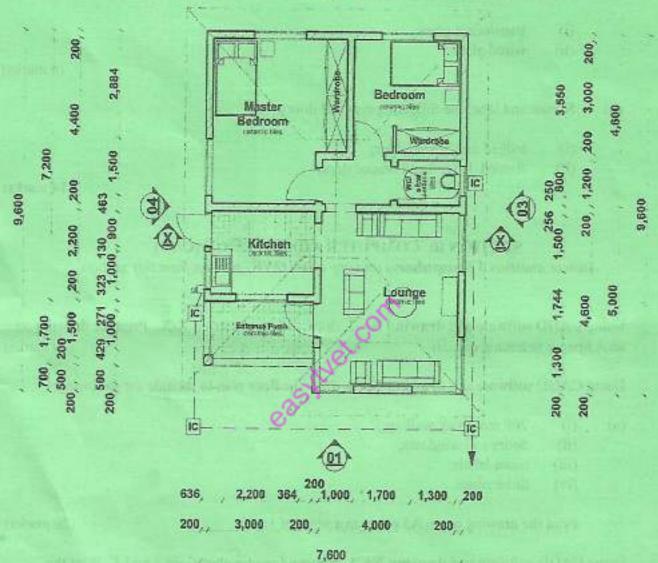
SECTION A: BUILDING CONSTRUCTION II

Answer THREE questions from this section.

1.	(a)	(i)	Define the following terms:			
			(I) hearth;			
			(II) flue;			
			(III) throat;			
			(IV) breast.			
		(ii)	State four functional requirements of fireplaces, flues and chimney	s. (8 marks)		
	(b)	With the aid of sketches, describe the following types of fences:				
		(i)	lattice fence;			
		(ii)	picket fence.			
		200		(12 marks)		
2.	(a)	(i)	Define each of the following terms:			
			(I) riser;			
			(II) tread;			
			(III) waist;			
			(IV) basustrades.			
		, my	0.7 1. 1. 6. 60			
		(ii)	Outline three advantages of precast concrete stairs.	(10 marks)		
	(h)	Strate	h and label a typical eave detail with timber members and GCI sheets	A CONTRACTOR OF THE PARTY OF TH		
	(b)	SACIL	if and saves a typical cave detail with timber members and over smooth	- (10 marks)		
3.	(a)	Defin	e each of the following terminologies:			
		(i)	skirting;			
		(ii)	comice;			
		(iii)	architrave;			
		(iv)	dado rails.			
		708811		(4 marks)		
	(b)	Describe the following types of scaffolds:				
		(i)	put log;			
		(ii)	independent;			
		(iii)	gantry.	200		
	(c)	(i)	Define the term 'landscaping'.	(9 marks)		

		(ii)	Describe the following landscaping plants:			
			(I) shrubs;			
			(II) grasses;			
			(III) climbers.			
				(7 marks)		
	e.v.	-				
4.	(a)	Desi	cribe the following types of glasses:			
		(i)	translucent glass;			
		(ii)	wired glass.			
		11/1/		(6 marks)		
	765	01	1 11 11 11 11			
	(b)	Sket	ch and label the following types of doors:			
		(i)	ledged and braced door;			
		(ii)	framed, ledged and braced door.			
				(14 marks)		
				(** manab)		
			CECTION B. GOVERNMENT VICTOR STORY	V2.N		
		Incur	SECTION B: COMPUTER AIDED DESIGN (C	AD)		
		I/IS WET	question 5 (compulsory) and any other ONE question for	rom this section,		
5.	Usin	g CADI	D software and drawing No. I, draw and label section >	C-X. Print the drawing on		
	an A	3 paper	to a scale of 1:50.	(20 marks)		
			N ₀	1999/1990/00		
6.	Using	g CADI	D software and drawing No. 2, draw the floor plan to in	clude the following:		
	(a)	(i)	200 mm thick walling;			
	(4)	(ii)	doors and windows;			
		(iii)	room labels;			
		(iv)	dimensions.			
		Print	the drawing on an A3 paper to a scale of 1:100.	(20 marks)		
7.	Heine	CADE	Description and description No. 1 days 1 days 1			
	Using CADD software and drawing No. 1, draw and render elevations 1 and 4. Print the drawing on an A3 paper to a scale of 1:50. (20 marks)					
			paper to a scale or 1.50,	(20 marks)		



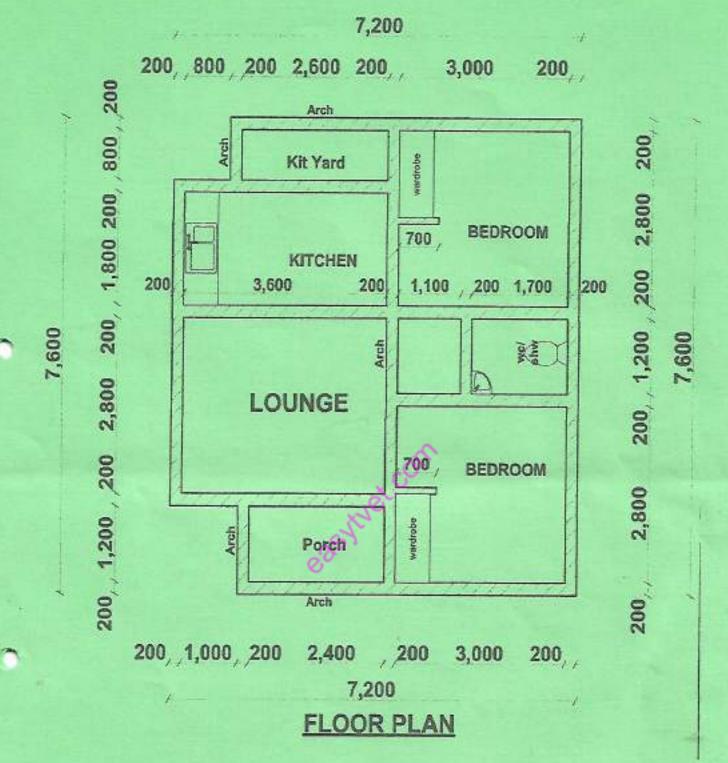


FLOOR PLAN.

Assumption

Assume any relevant information not provided,

DRW. No. 1



Assumption

Assume any relevant information not provided.

DRW. No. 2

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