1301/313 1304/313 1305/313 SITE AND WORKSHOP MANAGEMENT June/July 2009 Time: 3 hours

THE KENYA NATIONAL EXAMINATIONS COUNCIL

CARPENTRY AND JOINERY CRAFT CERTIFICATE MASONRY CRAFT CERTIFICATE PLUMBING CRAFT CERTIFICATE

SITE AND WORKSHOP 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 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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X.	(3)	State the "Factories Act" requirements with regard to safety in the workshop. (2 marks)		
	(b)	List three safety precautions that should be taken to reduce accidents in each of the following situations:		
		(i) work on the scaffold;		
		(ii) excavation of a trench.	(6 marks)	
	(6)	Briefly explain how each of the following should be stored on site:		
	1	(i) cement;		
		(ii) timber;		
		(iii) bricks and blocks;		
		(iv) roofing tiles;		
		(v) sand.	(10 marks)	
	(d)	Distinguish between tort and crime.	(2 marks)	
2.	90	Explain the meaning of the term Building Team as used in	a project. (2 marks)	
	965	State the duties of each of the following parties in a buildin	g project:	
	1	(i) structural engineer;		
		(ii) quantity surveyor;		
		(iii) clerk of works;		
		(iv) accountant.	(6 marks)	
	(4)	State four essential requirements for a workshop.	(4 marks)	
	(d)	State how an approval by the local authority for erection of may become null and void.	a structure (2 marks)	
	4)	State four precautions that should be taken to minimise the construction site.		
		Construction site.	(6 marks)	

- (a) Outline the procedure for procurement of materials on a construction site. (5 marks)
- (b) Briefly describe any three types of contracts in building projects.
 (3 marks)
- (c) Explain each of the following office documents:
 - (i) pro-forma invoice; /
 - (ii) payment voucher;
 - (iii) delivery note;
 - (iv) advice note.

(4 marks)

(d) The table below shows the activities and duration of a construction project.

Activity	Operation	Duration (days	
1-2	Ā		
1-6	В	5	
2-3	C	13	
2-4	D	4	
3-5. 4-5.	Е	11	
	F	6	
6-7	G	11	
	Н	3	
7-8-	1	15	
4-8	J	-	

Using the data:

- (i) Prepare the network.
- (ii) Calculate the total float.
- (iii) Show the critical path.

(8 marks)

- 4. (a) Briefly explain four factors to consider when planning the layout of a workshop. (8 marks)
 - (b) State two advantages and two disadvantages of selective tendering.

 (4 marks)
 - (c) Briefly describe four methods of storing tools in the workshop.

(8 marks)

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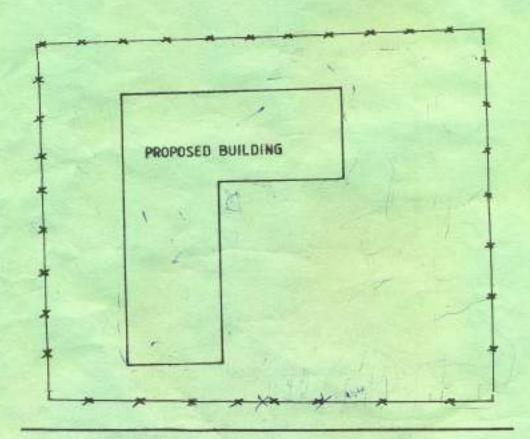
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- 5. (a) State any five functions of trade unions. (5 marks)
 - (b) Briefly explain five types of incentives that may be introduced in a building firm. (10 marks)
 - (c) State any five general guidelines to be considered when disciplining an employee on a construction site. (5 marks)
- (a) Explain the official procedure of relieving an inventory holder in a technical training institution. (4 marks)
 - (b) List four essential services required on a construction site.

 (2 marks)
 - (c) Figure 1 shows the plan layout of a proposed construction site for a 2storey office block. Copy the figure and indicate the positions of the necessary amepities and different work points. (10 marks)



Main road

(d) State four factors to consider when setting a site layout. (4 marks)

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7.	(a)	Brief	exist in an (4 marks)				
	(b)	State	four causes of termination of employment.	(2 marks)			
	(c).	List a	any four characteristics of a good filing system to e ency.	ensure (4 marks)			
	(d)	Define the term motivation and outline four aspects on how a supervi- can motivate workers on site. (10 marks					
8.	(a)	Brief	ly explain the following:				
		(i)	permanent stores;				
		(ii)	consumable materials;				
		(iii)	quotation form;				
		(iv)	local purchase order.	(8 marks)			
	(6)	(i)	List four factors that influence the choice of a m for a project.	echanical plant			
		(ii)	Briefly explain the following in relation to mech	anical plant:			
			- operating costs;				
			- owning costs.	(8 marks)			

(4 marks)