1301/313 1304/313 1305/313 SITE AND WORK MANAGEMENT June/July 2016 Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

CRAFT CERTIFICATE IN CARPENTRY AND JOINERY CRAFT CERTIFICATE IN MASONRY CRAFT CERTIFICATE IN PLUMBING

SITE AND WORKSHOP MANAGEMENT

3 hours

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination: Scientific calculator; Answer booklet. Answer FIVE of the following EIGHT questions. All questions carry equal marks. Maximum marks for each part of a question are as shown. Candidates should answer the questions in English.

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.

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Turn over

4.	(a)	State;	
		(i) four essential requirements of a good workshop.	
		(ii) four factors to consider when selecting a site for a workshop.	(8 marks)
	(b)	State three local authorities requirements before establishing a workshop.	(3 marks)
	(c)	Outline three factors to consider when designing a masonry workshop.	(9 marks)
2.	(a)	Briefly describe the duties of the following site personnel in material procure	ment:
		(i) site supervisor; It Observes by 10 7 (ii) procurement officer; (iii) storekeeper.	(9 marks)
	(b)	Explain the following documents as used in procurement:	
		(i) advise note; 29 Denory note (ii) delivery note; 29 Dans 3 (iii) invoice. 19	(9 marks)
	(c)	Sketch a sample of delivery note.	(2 marks)
3.	(a)	Explain how the following materials are stored on site:	
		 (i) roofing files; (ii) cement in 50 kg bags; Stores in our land. Purtones to contribute of (iii) iron mongery. 	(6 marks)
	(b)	Describe the function of materials schedule on site.	(5 marks)
	(c)	Explain the purpose of site inventory. 30 7	(3 marks)
	(d)	List six preliminary items on construction site.	(3 marks)
	(e)	State three purposes of (3d) above.	(3 marks)
4.	(a)	State six factors to be considered in a site layout. 45	(6 marks)
	(b)	Explain how 'piferage' can be reduced on construction site. L	(2 marks)

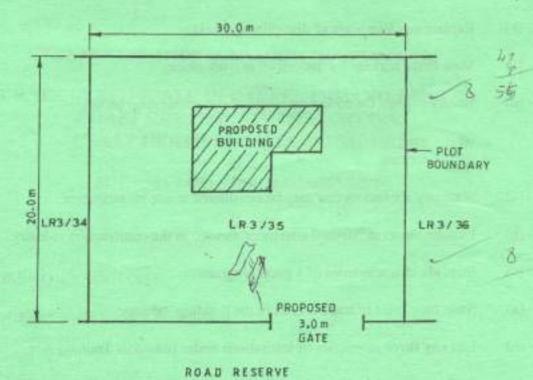
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- (c) Using the site plan given in Figure 1. Draw a site layout plan, showing the best position of the following:
 - (i) sand;
 - (ii) ballast;
 - (iii) security;
 - (iv) technical staff offices;
 - (v) concrete mixer;
 - (vi) store;

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- (vii) sign board;
- (viii) foundation stores;
- (ix) access road.

(12 marks)



9.0 m ROAD

Fig. 1

 $63 \frac{1}{2}$ (1 $\frac{1}{2}$ marks) 5. -List three sources of finance for buying construction plant. 12) (b) State any two roles of each of the following parties in a contract: (i) client; (ii) architect; (iiii) quantity surveyor; (iv) local authority. (8 marks) 1301/313 641 1304/313 1305/313 3 Turn over June/July 2016

(c)	Briefly describe the following contract:		
	(i) cost reimbursement;		
	(ii) package deal; Invokes one client & Contractor		
	(iii) item rate.	(9 marks)	
	111 68		
(b)	List three types of tendering methods.	$(1\frac{1}{2} \text{ marks})$	
(a)	Explain the following structure of an organization:		
	(i) line organization;		
	(ii) line and staff organization.	(6 marks)	
(b)	Explain any two ways of disciplining workers.	(6 marks)	
(c)	State three reasons for 'incentive' at work place.	(3 marks)	
(d)	Briefly explain the following mode of communication on site:		
	(i) oral;		
	(ii) written.	(5 marks)	
(a)	State any six factors that may be considered in site investigation.	(6 marks	
(b)	Explain the term 'Method statement' as used in the construction industry.	(5 marks)	
(c)	State six characteristics of a good programme.	(9 marks)	
(a)	State four roles of trade unions in the building industry.	(6 marks)	
(b)	List any three categories of institutions under Industrial Training Act.	$(1\frac{1}{2} \text{ marks})$	
(c)	(c) With respect to the 'factories act' explain the precautions that must be tak the health of the employees is safe guarded against:		
	(i) dermatities;		
	(ii) silicosis;		
	(iii) asbestosis;	10	
	(iv) bronchitis.	(8 marks)	
	Explain the following terms as used in the factories act:		
(d)			
(d)	 (i) Improvement notice; (iii) Prohibitive notice. 	$(4\frac{1}{2} \text{ marks})$	

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