2705/203 CONSTRUCTION MANAGEMENT I AND WORKSHOP TECHNOLOGY II June/July 2020 Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN BUILDING CONSTRUCTION MODULE II

CONSTRUCTION MANAGEMENT I AND WORKSHOP TECHNOLOGY II

3 hours

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination:

Answer booklet;

Scientific calculator.

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

Answer FIVE questions; choosing THREE questions from section A, and TWO questions from section B.

All questions carry equal marks. -

Maximum marks for each part of a question are indicated.

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.

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SECTION A: CONSTRUCTION MANAGEMENT I

Answer any THREE questions from this section.

1.	(a)	State five roles of each of the following stakeholders in the construction industry.			
		(i) (ii)	National environment management authority; National construction authority.		
		(11)		(10 marks)	
	(b)	Expla	in three classifications of construction work.	(6 marks)	
	(c)	Expla	in each of the following terms:		
		(i) (ii)	Management; Organization.		
		(11)	Organization.	(4 marks)	
2.	(a)	Descr	ibe four functions of management.	(8 marks)	
	(b)	Outlin	ne six principles of management.	(4 marks)	
	(c)	Outlin	ne two methods of communication.	(3 marks)	
2	(0)	Evalo	in two types of each of the following:		
3.	(a)	Ехріа	in two types of each of the following:		
		(i)	Organizational structures;		
		(ii)	Organizational relationship.	(8 marks)	
	(b)	Outlin	ne four types of contracts in the construction industry.	(6 marks)	
	(c)	Outli	ne four types of contract documents.	(6 marks)	
4.	(a)	(i)	Explain the terms 'serial tendering' as used in the construction i	ndustry.	
		(ii)	State two advantages of serial tendering.	(4 marks)	
	(b)	Expla	ain five remedies to breach of contract.	(10 marks)	
	(c)	Outli	ne four essentials of a valid contract.	(6 marks)	

5. **Figure 1** shows a site organization plan of a construction project.

(a) State **four** reasons for providing hoarding. (4 marks)

(b) Explain two reasons for placing the gate along Road A and not Road B. (4 marks)

(c) Explain six benefits of organizing the site as shown. (12 marks)

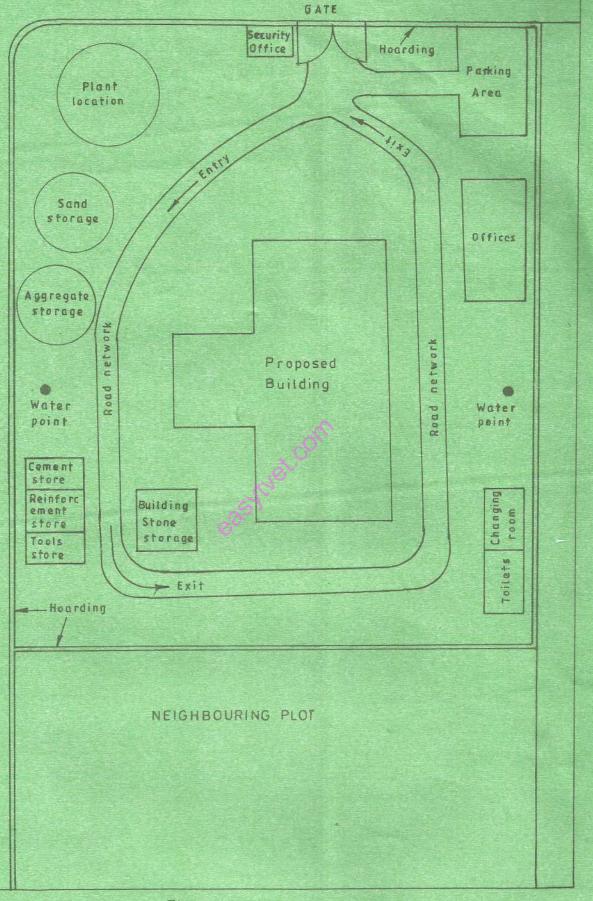


Fig. 1

m

Road

road

Service

SECTION B: WORKSHOP TECHNOLOGY II (ELECTRICAL)

Answer any TWO questions from this section.

(i) flat screw driver; (ii) ball pein hammer;	
(iii) needle nose pliers.	(12 marks)
(b) Explain four factors to consider when selecting the source of power	er supply. (8 marks)
7. (a) Explain the term "material estimation" as used in electrical installa	ation. (2 marks)
(b) State four IEEE regulations relating to electrical installation of cor	nduits. (4 marks)
(c) State four advantages of each of the following source of power:	
(i) hydro-electric; (ii) wind power.	(0. 1.)
(d) Sketch the following symbols as used in electrical installation.	(8 marks)
(i) two gang switch; (ii) Ac constant voltage; (iii) fuse.	(6 marks)
8. (a) Explain each of the following terms as used in electrical installation	
(i) cable; (ii) resistance; (iii) looping in.	
	(6 marks)
(b) State four comparisons between wiring diagrams and schematics of installation.	diagrams in electrical (8 marks)
(c) Sketch each of the following:	
(i) circular tee junction box; (ii) inspection tee; (iii) two way switch circuit controlling a lamp.	(6 marks)
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