1301/313 1304/313 1305/313 SITE AND WORKSHOP MANAGEMENT June/July 2018 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:

Answer booklet;

Drawing instruments

Answer FIVE of the following EIGHT questions.

All questions carry equal marks.

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

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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		- mice	? shall	
1./	(a)	State six factors to consider when selecting a workshop site.	(6 marks)s for	
	(b)	State six factors to consider when selecting a workshop site.  State three roles of each of the following parties to a contract:  (i) suppliers;  (ii) local authority.	gives and	
		(i) suppliers:	tor M. A.	
		(ii) local authority.	(6 marks)	
	(c)	Explain four spaces to be allocated in design of a workshop.	om (8 marks)	
2./	(a)	Explain four contract documents	(8 marks)	
Sign	(b)	Explain three ways of motivating workers in an organization.	(6 marks)	
	(e)	Define each of the following terms used in procurement:		
		(i) quotation;		
		(ii) specification;	fre comme Store	
		(iii) requisition; - uSand on She to show themsel		
		(iv) invoice Street places or mechanics electrical.	(6 marks)	
9.	(a)	State three advantages of each of the following stores:		
		(i) centralized; —		
		(ii) decentralized.	(6 marks)	
	(b)	Explain three reasons for hoarding commodities in a site store.	(6 marks)	
	(c)	Explain each of the following as used in store keeping:		
		(i) stock;		
		(ii) re-order level;		
		(iii) stock review.	(6 marks)	
	(d)	State four methods of tendering.	(2 marks)	
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4. (a) State four roles of trade unions.

(4 marks)

- (b) Table 1 shows activities and duration of a construction project.
  - (i) Prepare a network diagram showing the critical path.
  - (ii) Determine the earliest and latest finish time.

(10 marks)

Table 1

Activity	Duration
1-2	5
1-3	10
2-4	0
2-7	10
3-5	5
3-6	4
4-7	5
5-7	8
6-7	9

- (c) Explain how each of the following is used in estimating quantity of materials during a construction period:
  - (i) taking off;
  - (ii) squaring;
  - (iii) abstracting.

(6 marks)

5. (a) Outline four safety rules to be observed in a workshop.

- (6 marks)
- (b) Explain four factors that influence a workshop layout.

(8 marks)

- (c) State six functions of a site layout.

Contract - Suggestion A water (6 marks)

- 6. (a) (i) Explain the three types of maintenance of construction plants.
  - (ii) State two advantages of each type of maintenance in a (i) above. (12 marks)
  - (b) Explain two safety precautions related to each of the following:
    - (i) construction plant;
    - (ii) personnel.

(8 marks)

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(a) Explain three sources of capital for financing construction plants: (6 marks) Describe four factors to consider in the design of a site layout. (b) (10 marks) (c) Explain two types of organizational structures in a construction firm. (4 marks) 8. (a) Explain three methods of filing documents. (6 marks) (b) State three advantages of each of the methods of communication: (i) verbal; (ii) written. (6 marks) Explain four factors considered when buying office machines. (8 marks)

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4

-> Efficiency -> ma zimum -> control - activitie -> Stavaje

> Avoid Chouble dealing in hunding materials

> site activities righter that checks should be made

1304/313

1305/313 June/July 2018

1301/313