1301/313 1304/313 1305/313 SITE AND WORKSHOP MANAGEMENT June/July 2019 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.

1.	(a)	State five advantages of plant maintenance.	(5 marks)
	(b)	(i) State four factors to consider in selection of a workshop site.	
		(ii) Outline two essential services for a workshop.	(5 marks)
	(c)	Outline four contract documents.	(6 marks)
	(d)	Explain two regulations governing workshop design.	(4 marks)
2.	(a)	State four benefits of instilling discipline in a construction firm.	(4 marks)
	-(b)	Explain four documents used for material procurement.	(8 marks)
	* (c)	Explain four spaces to consider in design of a workshop layout.	(8 marks)
3.	(a)	State four reasons for site investigation.	(4 marks)
	(b)	Outline four factors to consider in the design of a site layout.	(6 marks)
	(c)	Explain five outcomes of designing a site layout.	(10 marks)
4.	(a)	State:	
		(i) four roles of a quantity surveyor in a construction firm;	
		(ii) three roles of a local authority in the building industry.	(7 marks)
	(b)	State five advantages of trade unions.	(5 marks)
	(c)	Explain four non-economic causes of industrial disputes.	(8 marks)

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- 5.
- (a) State four categories of mechanical plant giving one use for each.

(6 marks)

- (b) Table 1 shows the activities and duration of a construction project.
  - (i) prepare the network diagram;
  - (ii) show the critical path.

(14 marks)

Table 1

ACTIVITY	OPERATION	DURATION (WEEKS)
1-2	A	3 .
1-4	В	8
1-3	c	4
2-5	D	7
4-6	E	5
4-9	F	3
3-6	G	12
5-6	Н	4
6-7	1	3
5-7	J	9



- 6. (a) State four regulations governing employment in construction industry. (2 marks)
  - (b) Outline the procedure of disciplining an employee in a construction firm. (6 marks)
  - (c) Outline four methods of motivating workers in construction industry. (6 marks)
  - (d) Explain three systems of filing. (6 marks)
- (a) Outline four reasons for having inventory columns. (6 marks)
  - (b) Explain three methods of maintaining construction equipment. (6 marks)
  - (c) Explain four types of contracts. (8 marks)

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- Lup ms um condition.
- Cost reinbustment

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- 8. (a) Explain how each of the following is minimised on a construction site:
  - (i) material wastage;
  - (ii) material pilferage.

(4 marks)

- (b) Explain two sources of finance for acquisition of construction equipment. (4 marks)
- (c) Explain each of the following types of tendering:
  - (i) selective;
  - (ii) negotiated.

(4 marks)

(d) Explain four types of statutory deductions on income.

(8 marks)

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