2705/203 CONSTRUCTION MANAGEMENT I AND WORKSHOP TECHNOLOGY II June/July 2021

Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN BUILDING TECHNOLOGY

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 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 3 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A: CONSTRUCTION MANAGEMENT I

Answer any THREE questions from this section.

1.	(a)	a) State five roles of each of the following stakeholders in the construction industry:		
		(i) Local Authority;(ii) National Environmental Authority.	(10 marks)	
	(b)	Explain three types of organisational relationship.	(6 marks)	
	(c)	Explain each of the following terms used in construction:		
		(i) tender; (ii) contract.	(4 marks)	
2.	(a)	State four roles of a clerk of works in a construction project.	(4 marks)	
	(b)	Explain each of the following types of contractors:		
		(i) speculative; (ii) briefcase; (iii) turnkey.	(6 marks)	
	(c)	Explain five functions of management.	(10 marks)	
3.	(a)	Explain three methods of communication in the construction industry.	(6 marks)	
	(b)	Outline six principles of management.	(9 marks)	
	(c)	With the aid of a line diagram, explain the functional organizational stru		
4	. (a)		(10 marks)	
	(b		(10 marks)	
5	5. (a	a langite of planning a site layout.	(10 marks)	
	(l	Explain five benefits of planting a second		

SECTION B: WORKSHOP TECHNOLOGY II

Answer any TWO questions from this section.

6.	(a)	State five roles of the state department of energy in Kenya.	(5 marks)
	(b)	Sketch and label each of the following system:	
		(i) single phase two-wires;	
		(ii) single phase three-wires.	(7 marks)
	(c)	Explain four types of water heater circuit.	(8 marks)
7.	(a)	Explain three types of alarm systems.	(6 marks)
	(b)	Sketch and label a closed circuit for an alarm.	(6 marks)
	(c)	State four advantages of each of each of the following transmis	ssion systems:
		(i) national grid; (ii) interconnected grid.	(8 marks)
8.	(a)	Sketch each of the following electrical symbols:	
		(i) intermediate switch; (ii) transformer; (iii) buzzer.	(6 marks)
	(b)	Sketch and label each of the following electrical lighting circu	its:
		(i) two lighting points controlled from one point;	
		(ii) two lighting points controlled from two points.	(10 marks)
	(c)	(i) Explain the term 'parallel circuit' as used in electrical in	nstallation.
		(ii) State two advantages of a parallel circuit.	(4 marks)

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