2705/203 CONSTRUCTION MANAGEMENT I AND WORKSHOP TECHNOLOGY II Oct./Nov. 2016

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; and 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 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.

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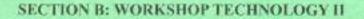
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# SECTION A: CONSTRUCTION MANAGEMENT I

Answer any THREE questions from this section.

	1.	(a)	Outline four types of contractors in the construction industry.	(6 marks)
		(b)	State three roles of each of the following bodies in construction industry:	
			(i) Local Authority; (ii) Kenya Bureau of Standards; (iii) Architectural Association of Kenya.	
- 1-				(9 marks)
Sala		(c)	State five salient features of construction industry.	(5 marks)
	2.	(a)	Explain five principles of an organization,	(10 marks)
		(b)	State five characteristics of an organization.	(5 marks)
		(c) ·	Outline five functions of management.	(5 marks)
	3.	(a)		used. (10 marks)
		(b)	Describe four methods of tendering.	(10 marks)
	4.	(a)	State three functions of signboards on a construction site.	(3 marks)
		(b)	State two roles of each of the following parties in construction industry:	
			factory inspector/occupational safety and health officer; clerk of works; nominated sub-contractor.	
				(6 marks)
		(c)	State five conditions that may render a contract null and void.	(5 marks)
		(d)	Explain three types of specifications.	(6 marks)
	5.	(a)	Explain the scope of works in construction industry highlighting four classific	cations. (8 marks)
		(b)	Explain four filing systems used by construction firms.	(8 marks)
		(c)	State four forms of written communication in an organization.	(4 marks)



Answer any TWO questions from this section,

- (a) With the aid of a sketch, show the power transmission from the power station to the final consumer. (12 marks)
  - (b) State four electrical quantities and their units of measurement. (8 marks)
- (a) With the aid of a labelled sketch, explain the difference between a step-down and a step-up transformer. (10 marks)
  - (b) State two classifications of safety when carrying out an electrical installation and outline two precautions to be observed for each. (6 marks)
  - (c) State four sources of electrical power. (4 marks)
- 8. (a) Sketch and label a section through an incandescent lamp. (7 marks)
  - (b) Illustrate a lighting circuit with a 4-terminal juction box and a 3-terminal rose controlling one lamp. (6 marks)
  - (c) State four factors to consider when selecting a cable for electrical installation.

(4 marks)

(d) List six electric insulating materials.

(3 marks)

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