

2705/203

**CONSTRUCTION MANAGEMENT I  
AND WORKSHOP TECHNOLOGY II**

Oct./Nov. 2022

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 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 as 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 **THREE** questions from this section.

1. (a) State five roles of each of the following stakeholders in the construction industry:
- (i) Ministry of Labour;
  - (ii) Local authority;
  - (iii) Kenya Bureau of Standards.
- (15 marks)
- (b) Distinguish 'refurbishment work' from 'restoration work' stating one example for each.  
(5 marks)
2. (a) State four advantages of each of the following organizational structures:
- (i) line structure;
  - (ii) functional structure.
- (8 marks)
- (b) Explain the term 'organizational structure'.  
(2 marks)
- (c) Explain five functions of management.  
(10 marks)
3. (a) Explain four temporary structures in a construction site.  
(8 marks)
- (b) Explain three documents used by a supervisor in a construction site.  
(6 marks)
- (c) Explain three methods of enhancing security in a construction site.  
(6 marks)
4. (a) State five roles of each of the following:
- (i) suppliers;
  - (ii) factory inspector.
- (10 marks)
- (b) Explain five types of contract documents in the construction industry.  
(10 marks)
5. (a) Outline the procedure of open tendering.  
(10 marks)
- (b) Explain five remedies to a breach of contract.  
(10 marks)

**SECTION B: WORKSHOP TECHNOLOGY II (ELECTRICAL)**

*Answer TWO questions from this section.*

6. (a) Outline **four** advantages of direct current transmission. (6 marks)
- (b) Explain **three** systems for electric power generation. (6 marks)
- (c) Explain **four** sources of electrical power. (8 marks)
7. (a) Outline **four** rules applied when preparing an electrical schematic diagram. (6 marks)
- (b) Explain each of the following electrical circuits:
- (i) radial;
  - (ii) spur;
  - (iii) ring.
- (6 marks)
- (c) Differentiate between each of the following terms as used in electrical works:
- (i) 'secondary distribution' and 'primary distribution';
  - (ii) 'secondary transmission' and 'primary transmission'.
- (8 marks)
8. (a) Explain each of the following terms used in electrical installation:
- (i) conductor;
  - (ii) insulator;
  - (iii) earthing.
- (6 marks)
- (b) Outline **four** reasons for earthing in electrical installation. (6 marks)
- (c) Explain **four** types of water heater appliances. (8 marks)

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