

073206T4BLD

BUILDING TECHNICIAN LEVEL 6

CON/OS/BT/CR/10/6/A

INSTALL BUILDING DOORS AND WINDOWS

Nov. /Dec. 2022



THE KENYA NATIONAL EXAMINATIONS COUNCIL

WRITTEN ASSESSMENT

3 hours

INSTRUCTIONS TO CANDIDATES

Maximum Marks for each question are indicated in brackets ().

This paper consists of **TWO** sections: A and B.

Answer questions as per instructions in each section.

You are provided with a separate answer booklet.

This paper consists of THREE (3) printed pages
Candidates should check the question paper to ascertain that all pages are
printed as indicated and that no questions are missing.

SECTION A: SHORT ANSWER QUESTIONS (40 marks).

Attempt ALL questions in this section,

1. As a builder, what do understand with term schedule as used in door installation? (4 marks)
2. Identify **Four** functional requirements of doors (4 marks)
3. List **Four** types of doors (4 marks)
4. Indicate **Four** suitable materials for making doors (4 marks)
5. List **Four** items to consider as you choose from wide range of doors (4 marks)
6. Define the term Ironmongery (2 marks)
7. Indicate **Three** purpose of door frame in construction (3 marks)
8. State **Seven** factors that determine number of doors in a room (7 marks)
9. List **Four** members of door frame (4 marks)
10. State **Four** factors to consider when locating where to place a window. (4 marks)

SECTION B: EXTENDED RESPONSE QUESTIONS (60 marks)

Attempt any **THREE** questions in this section,

- 11. a.** As a builder, how would you **explain** the following **two** methods of fixing door frames to a layman?
- (i) During construction of the wall
 - (ii) After wall has been constructed (10 marks)
- b.** The size of windows would be governed by the total area of window space needed. **Describe** any **three** criteria that may be kept in view while designing a window. (6 marks)
- c.** Windows are classified based on the ways they are opened and closed; briefly **explain** any **two** types of windows movement. (4 marks)
- 12. a.** With regards to materials used in door installation, how does the following work
- (i) Use of wood sumps or pallets
 - (ii) Use of wrought iron straps (6 marks)
- b.** **Describe** any **five** methods of general types of door movements. (10 marks)
- c.** **Describe** the functionality of flush fire doors. (4 marks)
- 13. a.** Having expertise in fixing doors, **describe** the following components of door ironmongery
- (i) Locks, Latches and Bolts
 - (ii) Hinges or Butts
 - (iii) Letter Plates
 - (iv) Finger and Kicking Plates
 - (v) Stile
 - (vi) Brace
 - (vii) Rail
 - (viii) Sill
 - (ix) Rebate (9 marks)
- b.** **Describe** how you would fix a fabricated window in a window opening of a building. (5 marks)
- c.** Outline **steps** carried out in fixing of glass pane (window pane) on metal window opening. (6 marks)

14. a. With a well labeled sketch, **draw** and **label** a door frame indicating:

(i) Mortice and Tenon joint

(ii) Weathered sill

(iii) Rebate for inward opening.

(10 marks)

b. With a well labeled sketch, **draw** the vertical cross section through the wooden window.

(10 marks)

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