

**073206T4BLD**  
**BUILDING TECHNICIAN LEVEL 6**  
**CON/OS/BUT/CR/02/6/A**  
**EXECUTE SITE PRELIMINARY WORKS**  
**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 FOUR (4) 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: (40 MARKS)**

*Attempt all questions in this section.*

1. List down **TWO** reasons why it is important to establish the site boundary before commencement of construction works?  
(2 marks)
2. What is the importance of removing the top soil prior to building construction?  
(2 marks)
3. How is the top soil disposed once it has been excavated? Give a reason for your answer.(2 marks)
4. Outline **THREE** uses of a bulldozer in site clearance.  
(3 marks)
5. Define the term hoarding as used in construction.  
(1 marks)
6. State **THREE** importance of hoarding/screening in a construction site.  
(3 marks)
7. Outline **FIVE** considerations to be made by the contractor during site reconnaissance prior to construction works.  
(5 marks)
8. State the importance of subsoil investigation?  
(2 marks)
9. Why should the excavated top soil never be used for backfilling?  
(1 marks)
10. State the importance of ground water control in a building site.  
(1 marks)
11. Define the term traversing as used in surveying.  
(2 marks)
12. Outline **THREE** consequences of lack of a proper site layout plan?  
(3 marks)
13. Outline **FOUR** factors affecting selection of a demolition method during site clearance. (4 marks)

14. Outline **ANY FOUR** contents to be included in a preliminary site report.  
(4 marks)
15. Discuss the sequence followed during manual demolition.  
(5 marks)

**SECTION B: (60 MARKS)**

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

16. Before the commencement of actual building construction, there is need to conduct certain preliminary site activities. Discuss importance of the following activities carried out before actual construction of a building.  
(20 marks)
- a) Site investigation and organization (layout)
  - b) Site welfare facilities
  - c) Storage and protection of materials
  - d) Site fencing and hoarding
  - e) Site clearance and excavation
17. Outline the considerations made when planning for an effective site layout. Draw a well labelled site layout plan for a proposed construction of a ten storied apartment block in Nairobi. (20 marks)
18. a) Outline **FIVE** reasons that would necessitate demolition and **FIVE** safety measures to be observed during demolition.  
(10marks)
- b) Differentiate between the use of a wrecking ball and the pusher arm technique used in demolition.  
(10 marks)

19. Prepare a detailed site preliminary report for a proposed five storey student hostel in Nakuru to be constructed on a one acre piece of land near the lake. The site has an old existing house that was used during the colonial era and two large trees next to the house. The proposed hostel will occupy both the area covered by the house and the trees. An area of the site appears mushy due to the growth of reeds. The construction site is unfenced and has numerous short bushes within it. The site does not have water and electricity connections.  
(20 marks)

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