073206T4BLD

BUILDING TECHNOLOGY LEVEL 6

CON/OS/BUT/CR/02/6

Execute Site Preliminary Works

November/December 2025

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

WRITTEN ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. This paper consists of **TWO** sections: **A** and **B**.
2. Answer **ALL** questions in section A and **ANY THREE** (3) questions in section B.
3. Marks for each question are indicated in the brackets.
4. Candidates are provided with a separate answer booklet
5. Do not write on the question paper.

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 (40 MARKS)

Answer ALL the questions in this section.

1. Proper planning and hazard assessments can prevent accidents and save lives. State any other FOUR precautions when executing preliminary works. (4 Marks)
2. Site clearance is a critical activity in a construction site. Outline FOUR major activities done during this exercise. (4 Marks)
3. Most construction sites require site stripping and site grubbing. Distinguish between the two terms. (4 Marks)
4. A construction signboard is a legal and communicative requirement. List FOUR items that must be displayed on a construction site signboard in Kenya. (4 Marks)
5. Welfare facilities are vital for worker well-being and productivity. Name FOUR welfare items that must be provided for workers on a construction site. (4 Marks)
6. Preliminary services are essential for smooth operation of activities. Highlight any THREE services that must be provided before commencement of a construction project. (3 Marks)
7. A lot of waste is produced during site clearance. Indicate THREE objectives of a pre-construction site waste management plan in site clearance. (3 Marks)
8. Construction sites are often divided into different zones to enhance safety and efficiency. Outline FOUR types of zones commonly found on a construction site. (4 Marks)
9. During the preparation of a site plan, the contractor was required to determine contour lines. Point out FOUR methods of determining contours after reducing levels. (4 Marks)
10. Before beginning construction work, a survey team was engaged to assess the site. Highlight FOUR importance of carrying out surveying work for a building site. (4 Marks)
11. Temporary facilities support smooth site operations. List TWO examples of temporary facilities required on a construction site. (2 Marks)

SECTION B (60 MARKS)

Answer Any THREE Questions in This Section

12. You have been assigned to oversee the safe demolition of an old warehouse building in an urban area.
    a. Explain any FIVE survey activities that you should do before demolition. (10 Marks)
    b. Discuss FIVE possible demolition methods that you would apply to demolish a building. (10 Marks)
13. A contractor has been awarded a project to construct a modern office block. To ensure smooth operations, proper site layout planning is required before work begins.
    a. Describe FIVE components that must be considered when planning a construction site layout. (10 Marks)
    b. Explain FIVE purposes of preparing a site layout plan on a construction project. (10 Marks)
14. Site Hoarding is a vital component of site management in construction projects.
    a. Explain TWO classifications of site hoarding giving two applications for each. (8 Marks)
    b. Describe SIX purposes of site hoarding. (12 Marks)
15. Assume you have been hired by a certain construction company as a building technician to undertake levelling practical using a dumpy level along a chain line at common intervals of 20m. The first reading is taken on chainage 80m where the RL was 103. 565m. The instrument was shifted after the 3rd and 7th readings. The following reading were taken: 3.150, 2.245, 1.125, 3.860, 2.125, 0.760, 2.235, 0.470, 1.935, 3.225 and 3.890m. Book the readings on the level note book and find the RL of all the remaining points by:
    a. Height of collimation method. (10 Marks)
    b. Rise and fall method. (10 Marks)