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BUILDING TECHNOLOGY LEVEL 6**CON/OS/BUT/CR/11/6****Construction Materials, Plant, Tools and Equipment****November/December 2025**

Printed By Technical And Vocational College Date: 25.11.2025

03:00 PM



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

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TIME: 3 HOURS**INSTRUCTIONS TO CANDIDATE**

1. This paper consists of **TWO** sections: **A** and **B**.
2. Answer **ALL** questions in section A.
3. Answer question **FOURTEEN** (14) and any other **TWO** (2) questions in section B.
4. Marks for stion are indicated in the brackets.
5. Candidates are provided with a separate answer bookl
6. Do not write on the question paper.

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This paper consists of THREE (3) printed pages**Candidate 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. **Site preparation sets sth. Outline THREE activities involved in a construction site before actual works begins.** (3 Marks)
2. **Construction materials are selected based on their intended use. State THREE categories of construction materials.** (3 Marks)
3. **A detailed bill of quantities is a basis of project planning. Identify FOUR key pieces of information that a BOQ provides for materials.** (4 Marks)
4. **Site security is a major concern on any construction site. State THREE effects of poor site security.** (3 Marks)
5. **Selecting the right tool for a job is an important skill. State THREE factors that influences the selection of hand tools.** (3 Marks)
6. **Correct choice and use of construction equipment directly affect the duration of a project. Name THREE equipment used for transporting in a construction project.** (3 Marks)
7. **Proper organization of a construction site requires secure storage. State THREE factors to consider when setting up a storage facility.** (3 Marks)
8. **Effective material storage prevents waste and loss. Identify TWO ways for storing sand and aggregate on site.** (2 Marks)
9. **Accurate material ordering is crucial for project budgeting. Outline THREE steps involved in the process of generating a materials requisition order from site to the procurement office.** (3 Marks)
10. **Modern construction relies on a mix of power and hand tools. List THREE power tools used in construction.** (3 Marks)
11. **An inventory register is maintained on a construction site. State THREE objectives of an inventory register.** (3 Marks)
12. **Construction projects depend heavily on equipment and machinery. Outline FOUR benefits of implementing a planned maintenance schedule.** (4 Marks)
13. **Different materials require different handling techniques. Name THREE types of equipment and their use.** (3 Marks)

SECTION B (60 MARKS)

Answer question 14 and any other TWO questions in this section

14. You have been appointed in bulk excavation project.

a. Develop a sample entry for a building equipment schedule. (10 Marks)

b. Explain FIVE advantages of preparing a building materials and equipment schedule. (10 Marks)

15. The process of receiving, verifying, and storing materials on site is a critical control point to ensure project quality and prevent cost overruns.

a. Describe procedure for receiving reinforcement. (12 Marks)

b. Explain the importance of the following procurement document. (8 Marks)

i. Requisition form

ii. Purchase order.

iii. Delivery note

iv. Invoice

16. Modern construction material management in a construction site helps to minimize material waste.

a. Explain any FIVE ways used to minimize materials wastage. (10 Marks)

b. Explain FIVE reasons why issued materials and equipment must be recorded on site. (10 Marks)

17. You have been appointed as a site supervisor for a building project and managing materials and equipment at the site is one of your main roles.

a. BE considerations while issuing required materials and equipment on a construction site. (10 Marks)

b. State FIVE consequences of failing to address discrepancies in received construction materials. (10 Marks)