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073105T4PLM

PLUMBER LEVEL 5

CON/OS/PL/CR/06/5/A

MAINTAIN PLUMBING SYSTEMS

July/August 2024

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

WRITTEN ASSESSMENT

3 HOURS

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INSTRUCTIONS TO CANDIDATE

1. Marks for each question are indicated in the brackets
2. The paper consists of **TWO** sections: **A** and **B**
3. All questions in section A are compulsory.
4. Answer any **THREE** questions in section B

This paper consists of THREE (3) printed pages.

Candidate should check the assessment to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A: (40 Marks)

Answer all questions in the booklet provided

1. Plumbing faults lead to inefficiency, damage or malfunctioning of the system. State FOUR common signs that indicate potential plumbing system faults. (4 Marks)
2. While doing maintenance you are expected to expose the causes of the plumbing faults. Outline FOUR causes that may cause plumbing faults. (4 Marks)
3. Plumbing faults cause the malfunctioning of the system. Give FOUR preventive measures to be taken to avoid plumbing system faults? (4 Marks)
4. Quantifying the scope of repairs needed for the plumbing system is quite essential to be done by an expert. State FOUR reasons why this is necessary. (4 Marks)
5. Cost estimation helps come up with the exact cost of the repairs to be done. However, these costs may vary from work to work. Explain TWO reasons that may influence this. (4 Marks)
6. When you have finished the quotation and there is a possibility of cost overruns. As the expert what advise can you give to cater for this? (2 Marks)
7. You have been called by a client complaining that her cistern is not working. List FIVE tools that you must carry for the repair. (5 Marks)
8. Home owners experience various plumbing faults that you may be called to repair. Identify FOUR common plumbing faults you may encounter. (4Marks)
9. In most plumbing maintenance works, taps are mostly repaired due to leakage. Outline THREE reasons as to why they leak. (3Marks)
10. Water seal is the water that is trapped in the toilet after flushing. Give TWO purposes of this water. (2 Marks)
11. A client called you complaining that she is suspecting for leakage in the building. Identify FOUR areas you are going to investigate. (4 Marks)

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SECTION B: (60 Marks)

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

12. You are a facilities manager responsible for overseeing a commercial building. One morning, you receive an urgent call informing you that there has been a burst pipe in the building. In this situation, you need to make critical decisions to minimize damage and ensure the safety of occupants and assets.
    a. Outline the immediate steps you would take in repair of the burst pipe. (10 marks)
    b. Discuss FIVE potential risks associated with the burst of the pipe on the building's infrastructure. (10 Marks)
13. Plumbing testing is highly recommended after an immediately repaired or constructed plumbing system.
    a. Briefly explain FIVE importance of regular testing in maintaining optimal system performance. (10 Marks)
    b. Explain any FIVE tests done. (10 Marks)
14. Clients in a residential building have been complaining of faulty plumbing system in their apartments. The owner of the building contracted you to solve the outcry of the tenants and you plan to do it over the coming holiday.
    a. Briefly explain FIVE reasons why you should issue a notice to the tenants. (10 Marks)
    b. Explain FIVE reasons that will make you conclude that it is a blockage in the sewer line. (10 Marks)
15. You have been tasked to work in the newly constructed community market and you found that it was not commissioned since it required a toilet.
    a. Explain the procedure in fixing the water Closet. (12 Marks)
    b. Explain FOUR housekeeping activities to follow while working in the market. (8 Marks)

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