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**073204T4PLM****PLUMBING LEVEL 4****CON/OS/PL/CR/06/4**

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**Maintain Plumbing Systems**

Date: 21.11.2025 10:45 AM

**November/December 2025**

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

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**WRITTEN ASSESSMENT****Time: 2 HOURS**

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**INSTRUCTIONS TO CANDIDATE**

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**1. This paper consists of two sections; A and B**

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**2. Answer ALL the question in section A and B**

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**3. Marks for each question are as indicated in the brackets****4. You are provided with a separate answer booklet to answer the questions**

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**5. Do not write in this question paper**

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**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 (10 MARKS)**

Answer **ALL** questions in this section. Each question carries one mark.

1. \_\_\_\_\_ refers to a clog in plumbing system.  
A. A device for opening faucets  
B. A blockage that obstructs water flow  
C. A type of valve  
D. A wastewater treatment system
2. Which of the following is a method used to identify oil pipes?  
A. Smoke test  
B. Air compressor  
C. Chemical cleaning  
D. Heat treatment
3. Why should affected areas be isolated during maintenance?  
A. To reduce working hours  
B. To follow best practice and ensure safety.  
C. To prevent tool lost.  
D. To allow free access to the public
4. Plumbing systems often require repair when leaks or damage in pipes and joints. Which material is commonly used in repairing plumbing faults?  
A. Copper  
B. Brass  
C. Bronze  
D. Aluminium
5. Which of the following regulation guides plumbers in the use of PPEs?  
A. ISO  
B. OSHA  
C. WHO  
D. UN-Habitat
6. \_\_\_\_\_ focuses on catching and fixing problems before they happen.  
A. Corrective maintenance  
B. Preventive maintenance

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- C. Predictive maintenance
- D. Predetermined maintenance
7. In water supply systems, different fittings are installed to perform specific functions.

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How does a non-return valve work in water supply.

- A. Permits water supply in one way.
- B. Permits water supply in two ways.

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- C. P supply in three ways.
- D. Permits water supply in four ways
8. Which of the following is not a factor to consider w water pipes.
- A. Suitable for the expected temperatures and pressures
- B. Compatible with the water supply.
- C. Suitable for the local climate.
- D. Not able to withstand UV effects

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9. Plumbing systems can develop problems if proper care and maintenance practices are not observed. Which of the following practices helps prevent frequent plumbing blockages.

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Down The Sink

- B. Throwing Solid Waste Into Toilets
- C. Cleaning Pipes Regularly
- D. Using Broken Pipes
10. What should be the first step when fixing plumbing faults.
- A. Apply adhesives immediately
- B. Buy and assemble the correct tools and equipment
- C. Call a licensed electrician
- D. Replace the entire plumbing system

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**SECTION B (40 MARKS)*****LL questions in this section.***

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11. Different plumbing faults require the use of specialized tools to ensure quality workmanship. List FOUR tools used when repairing plumbing faults. (4 Marks)
12. The durability of plumbing systems depends largely on how well users handle and maintain. FOUR practices users should adopt to avoid recurring plumbing faults. (4 Marks)
13. Mention TWO reasons for twisting plumbing rods in the same direction during use. (2 Marks)
14. Different pipe materials used in plumbing have unique features that determine their suitability for specific applications. List FOUR characteristics of Polyethylene plastic pipes. (4 Marks)
15. Various types of pipe fitting are available in plumbing systems for different purposes and functions. Name FOUR types of plumbing fittings. (4 Marks)
16. The performance of plumbing connections depends largely on the suitability of the sealant. List FOUR factors will you consider in choosing the right sealant. (4 Marks)
17. Safe working environments depend on proper organization and cleanliness at all times. Mention FOUR hazards caused by poor housekeeping. (4 Marks)
18. What radiator valves be opened during leak testing. (2 Marks)
19. During installation, plumbers must understand the role of each component in the system. List FOUR uses of valves in plumbing systems. (4 Marks)
20. List FOUR factors to consider when estimating the cost of plumbing fittings. (4 Marks)
21. Poor installation and lack of maintenance contribute to common defects in drainage systems. List FOUR common defects found in water supply systems. (4 Marks)

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