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073204T4PLM**PLUMBING LEVEL 4****CON/OS/PL/CR/0.4/4****Install Sanitary Appliances****July/August 2025**

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

WRITTEN ASSESSMENT

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Time: 2 HOURS

INSTRUCTIONS TO CANDIDATE

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1. This paper consists of two sections; **A** and **B**
2. Answer **all** the question in section **A** and **B**
3. Marks for each question are as indicated in the brackets
4. You are provided with a separate answer booklet for questions
5. Do not write in this question paper

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This paper consists of FOUR (4) printed pages

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and check the question paper to ascertain that all pages**are printed as indicated and that no questions are missing**

SECTION A (10 MARKS)

1. What is main the function of an S-trap in a plumbing system? (1Mark)

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A. To increase water pressure

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B. To prevent sewer gases from entering the building

C. To regulate water temperature

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D. To e weight of pipes

2. Convert 234 meters to centimeters. (1Mark)

A. 23400

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B. 2340

C. 234

D. 23.4

3. Water supplies to mixer traps on shower, bath and bidets should not be connected direct to the main pipe to prevent. (1Mark)

A. Forward pressure

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C. Back siphonage

D. Drying of water

4. After fixing wash hand basin, caulking material ssed to fill the gap. Which one of the following is not a caulking material? (1Mark)

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A. Sealant

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C. Adhesive

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D. Filter

5. _____ is not a type of fault found in water storage system?

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(1Mark)

A. Low and high pressure

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B. Air locks

C. Open system

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A. Control valve problem

6. Identify the reason why a valve is needed in a pipe during installation of water for domestic use. (1Mark)

- A. To ensure it fitted
- B. To reduce the length of the pipe
- C. To control the flow of water
- D. To increase the strength of the pipe

7. What is the purpose of using pipe clips during installation of the water system in a building. (1Mark)

- A. To connect PVC pipe with ppr pipe
- B. To allow easy flow of water within the system
- C. To seal joint in a pipe
- D. To hold pipe in position

8. _____ is not a type of test used for the purpose of ensuring correct work and free from defects arising in construction and manufacture. (1Mark)

A. Smoke

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B. Air

C. Water

D. Oil

9. Convert 500 mm to centimeter.

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A. 500cm

B. 5000cm

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D. 5cm

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10. What is the purpose of a backflow preventer in a plumbing system? (1Mark)

- A. To increase water pressure
- B. To allow other directions
- C. To prevent contaminated water from flowing back into the main water supply
- D. Regulate water temperature

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

11. Safety and health on OSHA regulations. State FOUR safety precautions to be taken and their relevance during the installation and maintenance of sanitary appliances. (4Marks)
12. A water closet is a bowl pan used to receive human excrete, it has an inlet for flushing and a trapped outlet. List FOUR steps for replacing a faulty water closet with a new one. (4Marks)
13. Traps in sanitary are used for trapping gases and smell in the building. State FIVE causes of water lose in traps. (5Marks)
14. There are different types of materials that are used depending upon their application. State FOUR materials commonly used in sanitary appliances. (4Marks)
15. Sanitary appliances are mounted based on best practices in the building. Name FOUR types of sinks. (4Marks)
16. A plumber wears safety gears when working at the site. Name FIVE importance of wearing personal protective equipment during plumbing works. (5Marks)
17. Tools are used to enhance productivity. State THREE tools used by a plumber when installing squatting toilet. (3Marks)
18. A sink is the most important fixture in our kitchen. State the procedure of installing a kitchen sink. (3Marks)
19. State FOUR types of working drawings. (4Marks)
20. the following terms used in pipework testing (2Marks)
- i. Fault.
 - ii. Water hammer.