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073204T4PLM**PLUMBING LEVEL 4****CON/OS/PL/CR/01/4****Install Water Pipes and Ancillary Appliances****July/August 2025**

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

WRITTEN ASSESSMENT

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INSTRUCTIONS TO CANDIDATE

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 to answer the questions
5. Do not write on 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. What symbol typically represents a gate valve in a plumbing drawing.

- A. A circle with a line through it
- B. Two triangles pointing towards each other
- C. A square
- D. A square

2. If a pipe has an outside diameter of 50 mm, then in inches

- A. Approximately 1 inch
- B. Approximately 2 inches
- C. Approximately 2.5 inches
- D. Approximately 3 inches

3. Which of the following materials is commonly used for hot water supply lines due to its ability to withstand high temperatures.

- A. Chloride
- B. GI (Galvanized Iron)

C. PPR (Polypropylene Random Copolymer)

- D. Mild Steel

4. What unit is commonly used to specify the nominal size of a pipe

- A. Kilograms (kg)
- B. Inches (") or Millimeters (mm)
- C. Degrees Celsius (°C)
- D. Degrees Celsius (°C)

5. To create a 90-degree change in direction in a piping system, which fitting is typically used.

- A. Nipple
- B. Union
- C. Elbow
- D. Cap

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6. What is the purpose for hemp packing in pipe work?

- A. To close the pipeline.
- B. To joined three of different diameters.
- C. To seal pipe joints.
- D. To joined two pipes of different diameters.

7. The following are components of plumbing water supply system except?

- A. Valves.
- B. Storage tanks.
- C. Water supply and distribution pipes.
- D. Kitchen sink

8. Which of the following fitting can accommodate three pipes in o pipe fitting?

- A. Union.
- B. Cross tee.
- C. Tee.
- D. Elbow

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9. What is the main function of a socket in pipe installation?

- A. To connect a big pipe to a small pipe face to face.
- B. To connect two pipes with different diameters.
- C. To join two pieces of pipes of the same diameter
- D. To connect two or more pipes of different sizes.

10. Identify the tool that is used to remove burrs from the threaded pipes?

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- A. Flat file.
- B. Rasp file.
- C. Pipe reamer
- D. Half round files.

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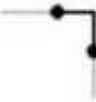
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SECTION B (40 MARKS)

Answer ALL questions in this section.

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11. List FOUR advantages of Polypropylene (PPR) Pipe. (4Marks)
12. List FIVE materials used for the cistern installation. (5 Marks)
13. With the aid of a diagram, sketch fittings for the following symbols. (2 Mark)

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14. State the main purpose of a pipe vice in the plumbing workshop. (1 Mark)
15. David a plumber wanted to install the following fittings in the client premises. State the full following fitting David used in his task (2 Marks)
16. James wanted to test his pipework before commissioning the project. State THREE Functionality tests he required. (3Marks)
17. Identify TWO surface sources of water. (2Marks)
- Pr 18. List SIX advantages of cold-water system. (6 Marks)
19. Record 4 precautions observed for the care of plumbing tools. (4Marks)
20. State the use of the following plumbing tools used in pipe work systems. (3Marks)
21. Outline TWO main disadvantages of a globe valve in plumbing pipework. (2Marks)

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22. With the aid of a well labelled diagram, sketch an indirect cold-water system (6 Marks)