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073203T4PLM**PLUMBING LEVEL 3****CON/OS/PL/CR/0.2/-3****Install sanitary appliances****November/December 2025**

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

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WRITTEN ASSESSMENT

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INSTRUCTS TO CANDIDATE

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1. Marks for each question are indicated in the brackets.
2. The paper consists of **TWO** sections: **A** and **B**.
3. Attempt **all** questions in section **A** and **all** questions in section **B**.
4. Candidates are provided with a booklet.
5. **DO NOT** write on this question paper.

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This paper consists of SIX (6) 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 (20 MARKS)

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Answer ALL the questions in this section.**TRUE/FALSE – Choose A or B (5 marks)**

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1. A drain-waste-vent (DWV) system is designed to carry only wastewater from fixtures.

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(1 mark)

- A. TRUE
B. FALSE

2. The maximum slope for a horizontal drain pipe is typically 41 inch per foot. (1 mark)

- A. TRUE
B. FALSE

3. A toilet with a siphon jet is generally more efficient at flushing than a gravity-fed toilet

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(1 mark)

- A. TRUE
B. FALSE

4. When installing a new faucet, it is always necessary to use Teon the threads.

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(1 mark)

- A. TRUE
B. FALSE

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5. The rough-in for a shower includes the finished tile work and shower door installation.

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(1 mark)

- A. TRUE
B. FALSE

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MATCHING QUESTIONS (1 MARK EACH)

Match Appliance in Column A with the correct supply valve from Column B

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No.	Column A (Appliance)	Column B (Supply Valve)
6	Toilet	A. Pressure-balancing valve
7	Lavatory faucet	B. Gate valve
8	Bathtub/shower	C. Ballcock
9	Main water shutoff	D. Stopcock valve
10	Dishwasher	E. Angle stop valve

(1 mark each)

MULTIPLE CHOICE QUESTIONS (10 MARKS)

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Choose the correct answer from A, B, C or D

11. What is the purpose of a ball valve in a toilet cistern. (1 mark)

- A. To control the water flow and level
- B. To open and close the tank outlet for flushing
- C. To fill the tank with water
- D. To prevent backflow

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12. Which type of sanitary appliance requires a hot and cold-water supply connection. (1 mark)

- A. A toilet
- B. A urinal
- C. A bidet
- D. A laundry sink

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13. What is the minimum recommended distance from the center of a toilet to the nearest side obstruction. (1 mark)

- A. 12 inches
- B. 15 inches
- C. 18 inches
- D. 21 inches

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14. The most common type of sealant used to create a watertight seal between a toilet bowl and the floor flange is..... (1 mark)

- A. Silicone caulk
- B. Plumber's putty
- C. A wax ring
- D. Thread sealant paste

15. A slip joint is a common type of connection found on..... (1 mark)

- A. The water supply line to a toilet
- B. A shower valve
- C. The P-trap under a sink
- D. The main sewer line

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16. Which of the following is a key advantage of using PEX pipe for sanitary appliance installation. (1 mark)

- A. It is highly rigid and won't sag
- B. It is immune to damage from freezing

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- C. It is easy to install in tight spaces
- D. It is the least expensive option

17.provides air to the drainage system to prevent siphonage and back pressure.

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- A. Drain pipe
- B. Waste pipe

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- C.
- D. Supply pipe

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18. Which of the following is a common reason for a slow-draining sink. (1 mark)

- A. A leak in the supply line
- B. A clogged P-trap
- C. Low water pressure
- D. An improperly installed faucet

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19. A showat prevents sudden changes in water temperature when other fixtures are used is known as a..... (1 mark)

- A. Pressure-balancing valve
- B. Gate valve
- C. Check valve
- D. Ball valve

20. When installing a bathroom vanity with a sink, what is the correct order of installation.

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(1 mark)

A. Sink, faucet, vanity cabinet

B. Faucet, sink, vanity cabinet

C. Vanity, faucet, sink

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D. Sink, vanity cabinet, faucet

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SECTION B (30 MARKS)**Answer ALL Questions in this Section**

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21. List **THREE** steps involved in troubleshooting a toilet that runs continuously. (3 marks)
22. Outline **FOUR** preparing a shower floor for tiling (4 marks)
23. List **THREE** types of sanitary appliances (3 marks)
24. List **TWO** essential safety precautions that should be before working on a water supply line. (2 marks)
25. List **THREE** components of a water closet as one type of a sanitary appliance. (3 marks)
26. State **FOUR** characteristics of good sanitary appliances. (4 marks)
27. List **THREE** steps you would take to install a wall-mounted lavatory (3 marks)
28. List **THREE** importance of housekeeping practices. (3 marks)
29. Items are used for trapping gases and preventing penetration of bad smell in the building. State **THREE** causes of water loss in traps. (3 marks)
30. Tools are used to enhance productivity and efficiency. State **TWO** tools used by a plumber when installing a kitchen sink. (2 marks)

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