

## PLUMBING LEVEL 3

**CON/OS/PL/CR/P0.2/r/3** Issued By: And Vocational College

Install sanitary applications Date 20.11.2025 03:38 PM

**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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## INSTRUCTIONS TO CANDIDATE

INSTANTIATED BY: BUA NORTH TECHNICAL AND VOCATIONAL COLLEGE

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1. Marks for each question are indicated in the bracket next to the question.
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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- A. TRUE
- B. FALSE

2. The maximum slope for a horizontal drain pipe is typically 1/8 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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- A. TRUE
- B. FALSE

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

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- A. TRUE

B. Printed By: And Vocational College Date: 20.11.2025

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

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- 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)**

Choose the correct answer from A, B, C or D (1 mark)

11. What is the purpose of a ball valve in a toilet cistern.

(1 mark)

A. To control the water flow and level

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B. To open and close the tank outlet for flush

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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.

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A. A toilet

B. A urinal

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C. A bidet

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D. A laundry sink

13. What is the minimum recommended distance from the center of a toilet to the nearest

(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 Printed By: Technical And Vocational College

B. Plumber's Printed By: Technical And Vocational College putty

C. A wax ring

D. Thread sealant paste

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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. (1 mark)

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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 Printed By: Technical And Vocational College Date:

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C. Low water pressure

D. An improperly installed faucet

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

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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

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(1 mark)

- A. Sink, faucet, vanity cabinet
- B. Faucet, sink, vanity cabinet
- C. Vanity, sink, faucet
- 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. ~~Printed By: Technical And Vocational College~~ ~~Date: 20.11.2025 03:38 PM~~ ~~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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