

073203T4PLM

PLUMBING LEVEL 3

CON/OS/PL/CR/02/3/A

Install Sanitary Appliances

July/August 2023



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

WRITTEN ASSESSMENT

Time: 2 hours

INSTRUCTIONS TO CANDIDATES

1. This paper has two sections **A** and **B**. Attempt questions in each section as per instructions given in the section.
2. You are provided with a separate answer booklet.
3. Marks for each question are indicated in the brackets.
4. Do not write on the question paper.

This paper consists of five (5) 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)

Choose the correct answer and write it in the answer booklet. Each question carries 1 mark

TRUE/FALSE QUESTIONS

1. Soil appliances and waste appliances are the main types of sanitary appliances.

TRUE/FALSE

2. Water closet, wash hand basin and urinal are the soil appliances.

TRUE /FALSE

3. Flushing valve is used to control the flow of water.

TRUE /FALSE

4. Water seal is the process of supply in the building.

TRUE/FALSE

5. Bidet is an example of waste appliance.

TRUE /FALSE

Match the following tools with their functions in the table below (5 mark)

Tool	Function
6. Water seal	Discharge waste water into a sewer
7. Waste appliances	Prevent four smell coming back to the building
8. Soil appliances	Prevent entry of four air from the sewer into the building
9. Waste pipe	Collect and discharge water after use
10. Trap	Collect and discharge of human excreta matter

MULTIPLE CHOICE QUESTIONS

11. Which of the following is not a type of water closet?
- A. Indian type water closet.
 - B. Spanish type water closet.
 - C. European type water closet.
 - D. Anglo-Indian type water closet.
12. Which of the following is not a classification of traps based on their shape?
- A. P-trap.
 - B. Q-trap.
 - C. S-trap.
 - D. W-trap.**
13. Bell-type flushing cistern is an example of?
- A. Valveless siphonic cistern.**
 - B. Valve fitted siphonic cistern.
 - C. Tubeless septic cistern.
 - D. Tube fitted septic cistern.
14. The size of a vent pipe commonly used in house drainage is?
- A. 30mm.
 - B. 100mm.
 - C. 50mm.**
 - D. 75mm.
15. Which of the following types of fixtures can be served by a combination-waste-and-vent system?
- A. Urinals.
 - B. Toilets.
 - C. Sinks.**
 - D. Bidets

16. What fitting are used in pipelines, that is easy to dismantle and repair?
- A. Elbow.
 - B. Union.**
 - C. Reducer.
 - D. Cap.
17. Which tool is used to cut external threads on cylindrical work pieces?
- A. Tap and wrench.
 - B. Pipe wrench.
 - C. Spanner.
 - D. Die and stock.
18. What is the likely height of a handicap toilet?
- A. 13 inches.
 - B. 15 inches.
 - C. 18 inches.
 - D. 22 inches.
19. Which fitting is used for closing the end of a pipe?
- A. Union.
 - B. Plug.
 - C. Socket.
 - D. Cap.
20. The provision for licensing is determined by which of the following:
- A. State board of plumbing.
 - B. Employer.
 - C. Plumbing inspector.
 - D. The responsible master plumber.

SECTION B (30 MARKS)

Answer all questions in this section

21. Name TWO types of shower spray head? (2 Marks)
22. Where is an automatic flushing cistern normally used? (2 Marks)
23. State TWO advantages using a shower. (2 Marks)
24. How does a flushing valve operate? (2 Marks)
25. List TWO causes of loss of water seal in a p-trap. (2 Marks)
26. Explain how a single-trap siphon works in a water closet. (2 Marks)
27. Highlight THREE properties to consider when choosing a material for the manufacture of a water closet? (3 Marks)
28. Mention TWO materials used for the manufacture sanitary appliances. (2 Marks)
29. What is a trap as used in sanitary appliances? (1 Mark)
30. State TWO characteristics of good sanitary appliances. (2 Marks)
31. Explain TWO functions of a valves. (2 Marks)
32. What is the main function of waste water appliances? (2 Marks)
33. List six types of sanitary appliances. (6 Marks)