

073203T4PLM

PLUMBER LEVEL 3

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

INSTALL SANITARY APPLIANCES

July/August 2024



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

WRITTEN ASSESSMENT

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATE

1. This paper consists of two sections; **A** and **B**
2. Answer **ALL** the question as guided in each section
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 in this 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)

Answer all questions. Each question carries one (1) mark.

Select if the following statements are TRUE or FALSE:

1. Back siphonage is the loss of pressure in the water supply causing water to flow backwards to the water supply.
A. True
B. False
2. Caulking is a material used to seal joints against leakage in various appliances and piping.
A. True
B. False
3. Sanitary plumbing includes the installation of appliances such as dishwashers and replacement or repair of taps, ball valves and plugs.
A. True
B. False
4. Fixing of sanitary appliances requires grout to align the appliance in position.
A. True
B. False
5. WC as an abbreviation used in plumbing to stand for Water Can.
A. True
B. False

Match the following tools with their correct use:

Tool	Use
6. Sink	Used for washing and rinsing the perineum and anal area
7. Urinal	Small pool full of heated water and used for soaking, relaxation and massage
8. Jacuzzi	Plumbing fixture for urination
9. Bidet	Plumbing fixture used for washing hands
10. Chain wrench	Used to hold and open or close the large diameter pipes.

11. A urinal is a sanitary plumbing fixture for urination only. Which among the following is a type of urinal?
- A. Bowl urinals.
 - B. Bend urinals.
 - C. Circuit urinals.
 - D. Flash urinals.
12. Flushing non-biodegradable items like wipes, paper towels, or hygiene products can clog pipe. Which one of the following chambers, is used to clean blockage in the line?
- A. Lateral chamber
 - B. Main chamber
 - C. Inspection chamber
 - D. Sewer chamber
13. is a type of thread used to connect a pipe to a sanitary appliance.
- A. Fixed thread.
 - B. Firm thread.
 - C. Male thread.
 - D. Bend thread.
14. Why should a valve be needed in a pipe during installation of water for domestic use?
- A. To ensure the two pipes are well fitted
 - B. To control follow of water
 - C. To reduce the length of the pipe
 - D. To increase the strength of the pipe
15. A bidet is a plumbing fixture that is installed as a separate unit in the bathroom besides toilet, shower and sink, which users have to straddle. Which one of the following is the main material needed during installation of bidet?
- A. Lime
 - B. Plates
 - C. Traps
 - D. Slates
16. A sink is used for washing utensils, cleaning hands, and other purposes. What is the waste water from kitchen sinks called?
- A. Grey water
 - B. Black water
 - C. Yellow water

D. Brown water

17. Which one of the following is the odd one out?

A. Kitchen sink

B. Washing machines

C. Bidet

D. Water closet

18. The following symbol is a representation of which appliance?



A. Wash hand basin

B. Water closet

C. Kitchen sink

D. Bidet

19. Which unit of measurement is used to show dimensions in a working drawing?

A. Milliliters

B. Milligrams

C. Kilometers

D. Millimeters

20. Which of the following is the main use of ball valves in installation of water in a cistern?

A. Used to control the flow of water in a plumbing system.

B. Used to generate water generate water quickly in a system.

C. Used to discharge clean water in a cistern.

D. Used to maintain high pressure of water at a constant rating.

SECTION B: (30 MARKS)

Answer all the questions in this section.

21. Sanitary appliances are fittings used for collection and discharge of matter. Differentiate between soil and waste sanitary appliances as used in plumbing related works. (4 Marks)
22. A water closet cistern is also referred to as a toilet tank. State THREE advantages of having water cistern when installing a water closet in a building. (3 Marks)
23. Maintaining tools and equipment is of great importance. List THREE ways of maintaining tools and equipment in a plumbing workshop to ensure they are in good condition. (3 Marks)
24. A water closet is a fixture having a water-containing receptor that receives liquid and solid body waste. Outline FIVE tools that are used during installation of a water closet for the purpose of waste disposal. (5 Marks)
25. Sanitary appliances are fittings used for collection and discharge of soil or waste matter. Highlight any THREE examples of waste sanitary appliances that are commonly used in plumbing installation works. (3 Marks)
26. A trap is a U-shaped portion of pipe designed to trap liquid or gas to prevent unwanted flow. State THREE types of traps used in installation of sanitary appliance. (3 Marks)
27. A valve is a device or natural object that regulates, directs or controls the flow of a fluid by opening, closing, or partially obstructing various passageways. State any TWO types of valves used in plumbing works. (2 Marks)
28. Safety is a very important aspect in the workshop. Outline any FIVE Personal Protective Equipment that a plumber should have while in a plumbing workshop. (5 Marks)
29. When installing a sanitary appliance, pipes are bent to fit the desired design. Which TWO methods can be used in bending either PVC or GI pipes. (2 Marks)

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