

Printed By: And Vocational College Date: 29.07.2025 10:39 AM

073105T4PLM

PLUMBER LEVEL 5

 $\pmb{CON/OS/PL/CR/_{\text{P}}0_{\text{ri}}6_{\text{r}}/_{\text{te}}5_{\text{d By: And Vocational College}}}$

Maintain Plumbing System \$5 1039 AM

July/August 2025

Printed By And Vocational College Date: 29.07.2025 10:39 AM



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

Printed By: And Vocational College

Date: 29.07.2025 10:39 AM

WRITTEN ASSESSMENT

Time: 3 HOURS

Printed By: And Vocational College Date: 29.07.2025 10:39 AM

INSTRUCTIONS TO CANDIDATE

Printed By: Technical And Vocational College

- 1. DMea the forzeach question are indicated in the brackets.
- 2. The paper consists of **TWO** sections: $\bf A$ and $\bf B^P$ rinted By: Technical And Vocational College Date: 29.07.2025 10:39 AM
- 3. Answer all questions in section **A** and any **THREE** questions in section **B**.
- 4. Candidates are provided with a separate answer booklet

Printed By: oTechnical And Vocational College

5. DO NOT write on this Dque asstico mappas prear: 39 AM

Printed By: Technical And Vocational College Date: 29.07.2025 10:39 AM

> This paper consists of THREE (3) printed pages Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.



Printed By: Technical And Vocational College

Date: 29.07.2025 10:39 AM

SECTION A (40 MARKS)

Answer ALL the questions in this section.

1. bing system alects to be tested Identify
Date: 29.07.2025 10:39 AM

THREE tests you would perform on a new installation.

(3 Marks)

- 2. A leaking elbow in a plumbing system can cause significant water losses. List THREE waterproofing mateu would use to correct the leakage. (3 Marks)
- 3. Phum bing failts Feard to damage and malfunctioning of a system. State FOUR common signs that indicate potential plumbing system of a system of a system of a system. State FOUR common signs that indicate potential plumbing system of a system of a system. State FOUR common signs that indicate potential plumbing system of a system.
- 4. Mrs. Stacy raised a complain of leaking stored of each of Results of the leakage. (3 Marks)
- 5. There are different parts in Kenya with salty water hence pipes are prone to corrosion and clogging.
 - a. State THREE maintenance that can be practiced to avoid clogging in instant shower heads. (3 Marks)

Printed By. a. od s/amadio exquirip myent you would use during the maintenance in (i)

Date: 29.07.2025 1 $^{\circ}a$: $^{\circ}b$ $^{\circ}o$ $^{\circ}v$ $^{\circ}e$. (3 Marks)

- 6. Plumbing materials are prone to damage after installation. State FOUR causes of mechanical damage on installed plastic pipes. (4 Marks)

 Printed By Technical And Vocational College
- 7. A kitchen sink in a residential building has $f_D a_a il_e e_{d_2} t_b o_7 d_7 a_2 i_5 n_1 o_3 w_3 a_5 s_A t_B$ water properly. List down the steps you would follow to troubleshoot the fault. (4 Marks)
- 8. A p and safety risks during plumbing operations.

Date: 219d.0e7n2ti0f2y5 TOHREE risks they face while maintaining plumbing systems. (3 Marks)

9. You conducted a regular inspection in a client's ho and
Date: 29.07.2025 10:39 AM

basin was faulty. State FOUR factors that would determine whether it needs to be replaced instead of repaired.

Printed By: Technical And Vocational College

(4 Marks)

10. Tools and equipment maker woo sk each the following tools as used in plumbing maintenance.

a. Adjustable Wrench. (2 Marks)

Printed By Asn d Vocational College Date: 29.07.2025 10:39 AM

(2 Marks)

c. Combination square.

(2 Marks)



Printed By And Vocational College Date: 29.07.2025 10:39 AM

SECTION B (60 MARKS)

Answer Any THREE Questions in This Section

11. Printed By: And Vocational College

a. Dur Din g to pair works of wa water distribution system, a plumber is required to carry out functionality test on the system to guarantee the client that all is well.

Discuss FIVE potential consequences of not testing the functionality of a

Printed By: And Vocational College
plumbing system.

Date: 29.07.2025 10:39 AM

(10 Marks)

b. Corrosion occurs when old metal pipes rust on the inside after many years of water flow. It leads to serious problem's incl breakage and even Date: 29.07.2025 10:39 AM water contamination. Explain FIVE ways of preventing corrosion in metal pipes. (10 Marks)

12.

a. Proper repair procedures are important for maintaining the efficiency and longevity of plumbing systems. Identify TEN steps to follow when preparing for a smooth and safe repair of a clogged kitchen sink. (10 Marks)

Printed By Technical And Vocational College

Date: 29.07.202b.10: We aAtMer leakage leads to economic loses. Describe FIVE steps involved in fixing water leak at a pipe joint in a plumbing system. (10 Marks)

13.

a. Air lock occurs when air is trapped in the pigewater from flowing lege Date: 29.07.2025 10:39 AM properly. Explain FIVE preventive measures to minimize the chance of an air lock in a plumbing system. (10 Marks)

Pined By. And Vocational College work in challenging environments that can easily lead to

Date: 29.07.2025 10:39 AM

potential harm or injury. Discuss rooterctisven Eaquipmentional Coses

that a plumber should adhere to whole ere pair in 25 a bath from. (10 Marks)

14.

a. A plumber should de price materials needed for repairs. Explain

Date: 29.07.2025 10:39 AM

FIVE steps followed when quantifying and costing materials required for plumbing repairs. (10 Marks)

Printed By g nw o r k s h o p the re are a number of tools and equipment used for Date: 29.07.2025 10: d3i9fAfeMrent functions. Discuss FIVE classifications of plumbing tools and equipment giving examples in each. (10 Marks)