

073203T4PLM

PLUMBING LEVEL 3

CON/OS/PL/CR/04/3/A

MAINTAIN PLUMBING SYSTEMS

NOV. /DEC. 2022



THE KENYA NATIONAL EXAMINATIONS COUNCIL

WRITTEN ASSESSMENT

INSTRUCTIONS TO CANDIDATE

- i. Time allocated: **TWO (2) hours**.
- ii. This paper has **Two Sections A and B**. Attempt questions in each section as per instructions given in the section.
- iii. You are provided with a separate answer booklet.
- iv. Marks for each question are indicated in the brackets.
- v. 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)

Each Question carries 1 mark

TRUE/FALSE

1. A slow leak can waste a lot of water
 - A. True
 - B. False
2. A functionality test is not important after repair of sanitary system
 - A. True
 - B. False
3. When using a plunger, overflow openings should be covered to prevent air from coming in or out.
 - A. True
 - B. False
4. A gate valve is a one-way valve.
 - A. True
 - B. False
5. Grease should not be allowed to enter the normal drainage system.
 - A. True
 - B. False

Match the correct tool in column A with their specific use in column B

No	COLUMN A	COLUMN B
6.	Wrench	i. Ensures tightness preventing leakages
7.	Plumbers snake	ii. Tighten and loosen pipes
8.	Washers	iii. Clears clogs in sinks and toilets
9.	Spanner	iv. Cutting pipes
10.	Hacksaw	v. Fixing and opening nuts and bolts

MULTIPLE CHOICE QUESTIONS

11. Which one of the following is used for marking a branch right angle to the main line in pipe fitting?
- A. Union.
 - B. Elbow.
 - C. Tee.
 - D. Flange.
12. Which one of the following fitting accommodates four pipes in pipe fitting?
- A. Socket.
 - B. Elbow
 - C. Tee
 - D. Cross
13. Which tool is used in assembling and dismantling of pipe?
- A. Spanner
 - B. Tap and wrench
 - C. Hacksaw
 - D. Pipe wrench
14. What could be the causes of shaky toilet?
- A. Worn out bolts
 - B. When the toilet dish is so old
 - C. If its clogged
 - D. Poor drainage system
15. Which of the following is used to block a pipe at one end?
- A. Plug
 - B. Reducer
 - C. Coupling
 - D. Union

16. How do you detect water leaks in the bathroom, since most of the pipes are inside the wall?
- A. Soft spots and discoloration on the wall
 - B. Breaking the wall to see
 - C. Checking the water line leading to the bathroom
 - D. Check seals and grout around the sink
17. Which of the faults are NOT likely to be fixed in a household?
- A. Leaking pipes
 - B. Clogged up drains
 - C. Shower installation
 - D. Faulty faucets
18. What is the first step taken when a pipe bursts?
- A. Turn off the electricity to the affected region of your home
 - B. Check safety first
 - C. Assess the burst and the surrounding area to the best of your ability
 - D. Take photographs of the damage
19. Why do traps need to hold some water at all times?
- A. To keep rats and mice out of the house
 - B. To keep sewer gas out of the house
 - C. To provide an emergency supply of water
 - D. To keep the pipes from drying out
20. What kind of tape do plumbers often use?
- A. Masking
 - B. Scotch
 - C. Two-sided
 - D. Teflon

SECTION B: SHORT ANSWER QUESTIONS (30 MARKS)

21. Which three faults are you likely to fix in a household? (3marks)
22. What causes clogging in pipes? (2marks)
23. List three waterproofing material would you use to correct a leaking elbow?(3 marks)
24. Mention the four tests you would apply when testing the functionality of a plumbing system? (4marks)
25. Why should you avoid using a pipe wrench in shiny fixtures? (2marks)
26. In which three ways would pipe fittings lead to leakages? (3marks)
27. List any four indicators of a faulty WC? (4marks)
28. Which are the four causes of faults in a faucet? (4marks)
29. While maintaining plumbing systems in a building, list five common health and safety risk that a plumber faces? (5marks)

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