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073204T4PLM

**PLUMBING LEVEL 4** 

CON/OS/PL/CR/05/4/A

**Install Water Storage Systems and Ancillary Appliances** 

March/April 2025



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



TIME: 2 HOURS

#### INSTRUCTIONS TO CANDIDATE

- 1. This paper consists of two sections; A and B
- 2. Answer ALL the questions in each section.
- 3. Marks for each question are 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 FOUR (4) printed pages

Candidates should check the question paper to ascertain that all pages

are printed as indicated and that no questions are missing

Page 1 of 4

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### SECTION A: (10 MARKS)

### Answer all questions in this section. Each question carries one mark

1.	is classified based on the type of service?
	A. Displacement pump
	B. Centrifugal pump
	C. Deep well pump
	D. Electric driven pump
2.	Which of the following is suitable for testing a piping system for leaks in water storage?
	A. Air
	B. Water
	C. Smoke
	D. Gas
3.	Which of the following is the correct classification of pumps?
	A. Physical principle of operation
	B. Mechanical principle of operation
	C. Chemical principle of operation
	D. Biological principle of operation  Printed By: Ramogi Institute Of Advanced Technology  Displacement pump is classified on the basis of Advanced Technology
4.	
	A. Mechanical operation of principle
	B. Type of power
	C. Type of service
	D. Efficiency
5.	The centrifugal pump has a flow.
	A. Variable
	B. Uniform
	C. Continuous
	D. Constant

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6.	The	maximum	efficiency	of a	centrifugal	pump	is	
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- A. 50%
- B. 60%
- C. 85%
- D. 100%
- 7. Which of the following activities does not require a plumber to wear gloves?
  - A. Handling tasks that involve hot materials
  - B. Using electricity
  - C. Handling slippery objects
  - D. Using water
- 8. The following are factors to be considered when determining the tank material except
  - A. Size of tank
  - B. Area of usage (environment)
  - C. Availability of space/area
  - D. Manufacturers date
- 9. controls the inlet of water into a storage tank?
  - A. Float-valve
  - B. Bib tap
  - C. Union
  - D. Gate-valve
- 10. How do we ensure that the ground to install the storage tanks is levelled?

  A Use gauge rod

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- A. Use gauge rod
- B. Use theodolite
- C. Use spirit levels
- D. Use string

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# SECTION B: (40 MARKS) Answer ALL questions in this section.

12 State FOLID views yourselvest over in construction drawings (Amount				
12. State FOUR views usually shown in construction drawings. (4marks)	s)			
13. James a plumber in Kenya want to install water tanks in a college, state FOUR generation				
guidelines he should observe before doing pipe work. (4marks	(s)			
14. State THREE ways in which water hammer can be eliminated. (3marks)	s)			
15. Explain TWO causes of water hammer. (2marks)	s)			
16. List FOUR types of testing equipment that can be used in water storage. (4mark	s)			
17. Give FOUR general activities are that carried out during functional testing. (4marks)	s)			
18. State FOUR properties of a liquid that must be considered before selecting type of a				
pump. (4marks	s)			
19. Plumbing materials have different characteristics, List three characteristics of materials				
used to make cisterns. (3marks	s)			
20. Jayden a plumber is a pump attendance. State FOUR mechanical check he performs on				
pumps. (4marks	s)			
21. List FOUR supports that can be used in storage tanks. (4marks	s)			
22. Give TWO benefits of good housekeeping practices in a workshop. (2marks	s)			

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