

061005T4ICT

ICT TECHNICIAN LEVEL5

IT/OS/ICT/CR/1/5

PERFORM COMPUTER NETWORKING

July /August 2024



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

WRITTEN ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATES

1. This paper consists of TWO sections: A and B
2. Answer ALL questions in section A and THREE questions in section B.
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: 40 MARKS

Answer ALL the questions in his section.

1. Computer networking is a vast and dynamic field that involves the interconnection of devices to share resources and communicate efficiently. Explain the following terms. (4 Marks)
 - i. Network
 - ii. Router
 - iii. Link
 - iv. Bandwidth
2. Emmanuel, a network technician at KALRO has been sent to buy tools for setting up a new network. List FOUR tools he will purchase. (4Marks)
3. Computer network connections are key aspect in networking. State TWO ways in which network devices can be connected giving examples in each case. (4Marks)
4. Describe TWO features of each of the following types of Local Area Networks. (4 Marks)
 - i. Peer to peer Networks
 - ii. Client server Network
5. In computer networking, topology refers to the physical or logical layout of interconnected devices within a network. Outline TWO advantages and TWO disadvantage of using a star topology. (4 Marks)
6. During a Lab lesson, Mr. Jared a Trainer at Nyarbach TVC explained on several ports found on a computer system. Name and explain the ports below. (4 Marks)



7. Computer networking is essential in today's digital world for a multitude of reasons, impacting various aspects of personal, professional, and societal functions. Highlight FOUR importance of computer networking. (4 Marks)