

LEVEL 6

Demonstrate Digital Literacy

Nov/Dec 2024



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

WRITTEN ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. Marks for each question are indicated in the brackets.
2. The paper consists of **TWO** sections: **A** and **B**.
3. Candidates are provided with a separate answer booklet
4. **DO NOT** write on 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.**

SECTION A (40 MARKS)

*Answer **all** the questions in this section.*

1. Computers can be classified in many ways and these classifications depend on their functions and definitions. What are the FOUR classifications of computers based on their speed? (4 Marks)
2. The computer will be of no use unless it is able to communicate with the user. What are the TWO input devices that can be used to bring information into the computer? (2 Marks)
3. Information and data can be attacked by malicious activities. Outline TWO methods of preventing spyware from infecting your computer. (2 Marks)
4. A toolbar as used with desktop publishers (DTP) is a collection of controls assembled as a group on the ribbon or a window pane on the working area. What are the FOUR types of toolbar for DTP package? (4 Marks)
5. Computer users sometimes engage in unethical uses of information in the course of duty. Outline TWO such unethical behavior. (4 Marks)
6. You have been requested to create a database. List TWO types of views that can be used in a Database design (2 Marks)
7. A computer virus is a program written to alter the way a computer operates, without the permission or knowledge of the user. What are the FOUR methods a computer user can implement to prevent his/her computer from being infected with viruses? (4 Marks)
8. Differentiate between System software and Application software as used in digital literacy. (4 Marks)
9. The Computer and Cybercrime Bill 2016 provide for offences relating to computer systems; to enable timely and effective collection of forensic materials for use as evidence. Give FOUR offenses against this bill that can lead to prosecution. (4 Marks)
10. During a group discussion, trainees of NAM TVC were advised to use peer to peer network during their practical work. Highlight FOUR features of peer-to-peer network. (4 Marks)
11. A network is a set of devices connected by communication links. What are the TWO types of computer networks based on size that might be useful in workplace? (4 Marks)
12. Amon was requested to design a brochure for TIP College. State TWO types of design software she can use. (2 Marks)

SECTION B (60 MARKS)

*Answer any **three** Questions in This Section*

13.

- a) Errors are found when incorrect results are produced by the computer thus wrong information displayed. As a technician at Mambo Technical Training Institute, discuss FIVE causes of errors in computer systems. (10 Marks)
- b) An Oil Manufacturing Company has established that its information is being electronically eavesdropped through their telephone lines. Explain THREE measures that the company could put in place to minimize this crime. (6 Marks)
- c) The management of Jolene Company has suggested to use desktop publishing over word processor in designing business cards. Discuss TWO advantages of desktop Publishing over Word Processor (4 Marks)

14.

- a) Innovations in Information Technology are impacting various fields of society. How has ICT impacted the following areas of Education?
- i. Teachers (2 Marks)
 - ii. Students (2 Marks)
 - iii. Researchers (2 Marks)
 - iv. College Administrators (2 Marks)
- b) Technology is evolving very fast in our modern society. Discuss THREE wireless technologies used today. (6 Marks)
- c) Mr Ojoo prefers assignment done by trainees to be sent to him via email. Explain THREE advantages of emails over traditional paper-based mail. (6 Marks)

15.

- a) Recently, there was a presidential directive that all learning institutions should implement TVET Management Information System to manage their information, thus all institutions were required to install internet. Discuss FIVE uses of internet that makes it popular other than education. (10 Marks)
- b) A newly established TVET institution is planning to set up a network. Explain FIVE types of networks that can be used in an institution of higher learning based on topology. (10 Marks)

16.

- a) Hacking is the gaining of unauthorized access to data in a system or computer. It is a major threat to any business that has automated its operations. Discuss the FOUR measures you should undertake to prevent hacking of your online account, phone, tablet or personal computer? (8 Marks)
- b) Skylar suspects her computer has been invaded by a virus. Describe THREE symptoms that the computer is likely to exhibit. (6 Marks)
- c) Jabali Company intends to secure its Management Information System. Explain THREE physical measures that the company could put in place. (6 Marks)