

**Qualification Code** : HE/OS/CH/BC/03/5/A  
**Qualification** : Community Health Level 5  
**Unit Code** : HE/OS/CH/BC/03/5/A  
**Unit of Competency** : Demonstrate Digital Literacy



**AMREF INTERNATIONAL TRAINING CENTER**

**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. In the healthcare setting, workers are expected to use computers effectively to improve service delivery. Define the following terms related to the computer.
  - a. Digital literacy. (1 Mark)
  - b. Software (1 Mark)
2. Clinics use networks to connect devices and share patient information securely. List TWO types of network topologies commonly used in healthcare institutions. (2 Marks)
3. Digital communication tools play an important role in promoting health education in communities. Outline THREE ways in which the internet supports modern community health initiatives. (3 Marks)
4. Organizations rely on different types of networks to exchange data and access online services. List THREE types of networks used in healthcare facilities. (3 Marks)
5. Every computer in a clinic runs an operating system to support the use of applications. Outline THREE functions of an operating system in managing healthcare data. (3 Marks)
6. Databases are used in management of records in any institution systems. State THREE types of databases that can be used in an office (3 Marks)
7. Health records officers depend on databases to organize patient data for easy retrieval. Outline FOUR advantages of using a database in a healthcare office. (4 Marks)
8. various input and output devices are used for data entry and processing. Outline FOUR output devices. (4 Marks)
9. Clinic staff may use digital tools to present data and reports effectively. Highlight TWO differences between Spreadsheet software and Microsoft word software. (4 Marks)
10. Email is an important communication tool in an institution. Outline THREE steps to follow when creating an email account (4 Marks)
11. Computers have different parts assembled that work together to enable full functioning of a computer. Highlight FOUR functions of CPU as one major part of a computer. (4 Marks)

**SECTION B (60 MARKS)**

***Answer Question TWELVE and any other TWO Questions in This Section***

12. A rural dispensary has introduced computer systems to manage patient appointments, health records, and drug inventory. However, staff are unfamiliar with the technology.
- Describe SIX simple tasks that healthcare workers can perform using a computer to improve service delivery. (6 marks)
  - Explain SIX reasons why it's important for health workers to acquire basic digital skills. (6 marks)
  - Elaborate FOUR categories of cyber threats affecting digital health systems. (8 marks)
13. A county health clinic is setting up computers to help staff share patient information and work faster. The technician wants to use a network and is choosing between star and mesh topologies.
- Describe network topology as used in networking. (2 marks)
  - Explain FIVE importance of the internet in the society today. (5 marks)
  - With an aid of a diagram, describe THREE features of a star topology that make it suitable for a small clinic. (5 marks)
  - Explain TWO ways a mesh topology can support communication during health emergencies. (4 marks)
  - Describe FOUR benefits of using a computer network in a healthcare environment. (4 marks)
14. A health center recently experienced a data breach due to poor cybersecurity practices. Patient trust has been compromised, and action must be taken to improve security.
- Discuss FIVE types of cybersecurity threats that can affect computer systems in a health facility. (10 marks)
  - Describe FIVE practical ways the facility can prevent future cybersecurity incidents. (10 marks)

15. As part of a health outreach program, students are being introduced to the use of computers in data collection, report writing, and communication. They must understand the types and development of computers.

- a. Explain the evolution of computers from the first to the fifth generation, highlighting key technological changes in each. (10 marks)
- b. Discuss FOUR classifications of computers according to size, giving an example of each. (8 marks)
- c. Describe TWO classifications of computers according (2 Marks)

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