

091906T4HRI

HEALTH RECORDS AND INFORMATION TECHNOLOGY LEVEL 6

HE/OS/HR/CR/07/6/A

MANAGE ELECTRONIC HEALTH

NOV/DEC 2023



WRITTEN ASSESSMENT

Time: 3 hours

INSTRUCTIONS TO CANDIDATES

1. This paper has two sections **A** and **B**.
2. You are provided with a separate answer booklet.
3. Marks for each question are as indicated.
4. Do not write on the 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 questions from this section

1. Define the term interoperability. (2 Marks)
2. You have been appointed to present to hospital management team (HMT) to discuss various types of area network State THREE types of networks you will include in your presentation (3 Marks)
3. Application of telemedicine in the health industry has been beneficial. State FOUR importance of telemedicine in healthcare (4 Marks)
4. Using the knowledge acquired in E-health:
 - a) Define electronic health record. (2 Marks)
 - b) List THREE data elements that should be included in a health record captured electronically (3 Marks)
 - c) Give THREE security measures for electronic health system that will ensure safe storage and sharing of health records. (3 Marks)
5. State TWO uses of mobile phones provided to Community Health Promoters (CHPs) (2 Marks)
6. There are several systems that are currently computerized in Kenya health care industry. List FOUR systems commonly computerized in Kenya (4 Marks)
7. Outline THREE storage devices that can be used to store data electronically (3 Marks)
8. Data sharing is very important in health care delivery. Outline FOUR ways of sharing patient data in a hospital (4 Marks)

9. E-Health comprises use of various medical equipment. Identify **THREE** digital equipment in a hospital (3 Marks)
10. Hospital X prefers online booking to manual booking. State **FOUR** advantages of online booking in a hospital (4 Marks)
11. Outline **THREE** health record reports that can be generated by the electronic health records system. (3 Marks)

SECTION B: (60 MARKS)

*Answer any **THREE** questions*

12. St. Mary Hospital has a project on digitalizing all their patient services and there are some considerations to put in place.
- a) Explain any FIVE considerations for computerization of patients' medical records you would advise them to adopt (10 Marks)
 - b) Discuss FIVE importance of backup in computerization of medical records (10 Marks)
13. Kipkaren hospital intends to implement electronic health records for the purposes of reducing paper work. Despite the benefits likely to be brought by the EHRs, the hospital may face some challenges.
- a) Discuss any FIVE challenges that the hospital may face when implementing EHRs. (10 Marks)
 - b) Discuss FIVE ways to curb these challenges (10 Marks)
14. E-Health has distinct characteristics from ancient paper-based systems. Describe any TEN characteristics of E-Health which has made it unique and allowed for its implementation in many countries in the world (20 Marks)
15. The health information exchange (HIE) allows electronic transmission of health information is a growing practice among health care providers. Discuss any FIVE benefits HIE has in health information transmission. (20 Marks)

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