



GRETSA UNIVERSITY - THIKA

UNIVERSITY EXAMINATIONS January-April 2025 SEMESTER

DIPLOMA IN HEALTH RECORDS AND IT

COURSE CODE: DIHR 042

COURSE TITLE:HEALTH INFORMATION SYSTEM II

DATE:

TIME:

INSTRUCTIONS TO CANDIDATES

1. SECTION A IS **COMPULSORY**.
2. SECTION B: ANSWER ANY OTHER **THREE** QUESTIONS.
3. **DO NOT** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

CAUTION: *All exam rooms are under CCTV surveillance during the examination period.*

SECTION A: COMPULSORY

PART I: MULTIPLE CHOICE QUESTIONS [1-5]

[ONE MARK EACH]

1. The following are weakness in routine except?
 - A. Daily audits on the patient case notes
 - B. Constant staff operation required
 - C. Excessive inappropriate data types requested
 - D. Incomplete late reporting
2. Selection criteria of an indicator involves the following except?
 - A. Measurable
 - B. Valid
 - C. Reliable
 - D. Timelines
3. Which one of the following includes population based data
 - A. Absenteeism records
 - B. Surveys
 - C. Sentinel surveillance
 - D. Routine data collection
4. Which of the following forms a disadvantage of vital registration
 - A. Ensures continuous data collection and thus qualifying possible at any given time
 - B. It is less expensive to manage
 - C. Standardized manner of data collection
 - D. Some of the data variables may be incomplete
5. The following are uses of indicator except?
 - A. For standardizing health information reports
 - B. When measured sequentially over time, they show direction speed of change
 - C. Assist to motivate and put pressure on policy makers to make change changes in policies
 - D. Foster more equitable distribution of resources among and within countries or regions

PART II: SHORT ANSWER QUESTIONS: ANSWER ALL QUESTIONS IN THIS SECTION

1. Clearly showing how each one of them is used discuss any five equipment which can be used for electronic health data storage [5 marks]

2. There are multiple uses for health data information once it is collected, processed and analyzed. Describe such five such ways in which health information can be uses. [5 marks]
3. Describe five characteristics of high qualities information/data for use in health information system [5 marks]
4. Describe at least five ways in which health indicators can be used in Kenyan health care system. [5 marks]
5. Explain any five advantages of conducting routine data quality audit in the health care sector. [5 marks]

SECTION B: CHOOSE ANY TWO QUESTIONS

[40 MARKS]

Question one

- a. Discuss some criteria which need to be considered when selecting these indicators. [10marks]
- b. Discuss at least five categories of health indicators [10marks]

Question two

- a. In most developing countries, health data/information has suffered from both qualitative and quantitative defects. Explain any five such defects which data collected in Kenyan health system can suffer [10marks]
- b. Suggest ways in which the above discussed defects can be prevented [10marks]

Question three

Data security is the practice of keeping data protected from corruption and unauthorized access.

- a. Discus at least five measures which can be put in place to ensure security of information in health information system. [10 marks]
- b. Discuss any five any five advantages of collecting and storing data using electronic media in health care facility set up. [10marks]

Question four

Quality audit in health information system is conceived as a mean of verifying the reported performance as well as enhancing service monitoring and reporting systems. It reviews the service given, the number of consumers of the service and accuracy of the reporting system.

- a. Explain three objectives of data quality audit. [6 marks]
- b. Explain any four advantages of carrying out health information system audit. [8 marks]
- c. Discuss any three challenges facing implementation of HIS in the devolved system of governance [6 marks]