

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR
OF SCIENCE IN HEALTH RECORDS AND INFORMATION MANAGEMENT

HRIM 254: ANALYSIS AND INTERPRETATION OF HEALTH CARE DATA

STREAMS: BSC. HRIM Y2S2

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 16/4/2025

11.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

1. Do not write anything on the question paper.
2. Mobile phones and any other reference materials are NOT allowed in the examination room.
3. The paper has two sections. Answer ALL questions in Section I and TWO questions from Section II. Note that Question 2 is compulsory.
4. Number ALL your answers and indicate the order of appearance in the space provided in the cover page of the examination answer booklet.
5. Write your answers legibly and use your time wisely.

SECTION ONE: ANSWER ALL QUESTIONS IN THIS SECTION (40 MARKS)

QUESTION ONE

- a) List 5 Visualization tools as used in healthcare data management (5 marks)
- b) Trend analysis is one of the key deliverables in healthcare analytics.
 - i. Describe trend analysis (2 marks)
 - ii. List 3 advantages of trend analysis (3 marks)
- c) State 5 aspects that are looked into during the process of Data Cleaning (5 marks)
- d) List and explain 6 Ethical Considerations and Challenges in Using Healthcare Data for Research (6 marks)
- e) Outline 4 uses of dashboard as a data visualization tool (4 marks)
- f) State the challenges might arise when using healthcare data for research, and how can these be addressed? (5 marks)
- g) Outline 5 ethical principles and how they guide the use of healthcare data in research? (5 marks)
- h) Explain the role of informed consent in ethical use of healthcare data for research? (5 marks)

SECTION TWO: ANSWER TWO QUESTIONS IN THIS SECTION (QUESTION 2 IS COMPULSORY) (30 MARKS)

QUESTION TWO

- a) Discuss in details 4 Sources of Healthcare Data (8 marks)
- b) Describe the step-by-step Process of Data Collection in a healthcare setting (7 marks)

QUESTION THREE

- a) Describe how healthcare data can aid to inform decision-making if properly interpreted (10 marks)
- b) Describe the process of Data Integration in healthcare Management (5 marks)

QUESTION FOUR

- a) Discuss the key components in the management of Healthcare Data (10 marks)
 - b) Describe giving examples how real-time data access works giving examples (5 marks)
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