



# **GRETSA UNIVERSITY - THIKA**

## **UNIVERSITY EXAMINATIONS JANUARY – APRIL 2017 SEMESTER**

### **CERTIFICATE IN HEALTH RECORDS AND INFORMATION TECHNOLOGY**

**COURSE CODE: CIHR 038**

**COURSE TITLE: HEALTH INFORMATION SYSTEMS**

**DATE: 7 APRIL 2017**

**TIME: 8.00 AM – 10.00 AM**

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#### **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**

**[ANSWER ALL QUESTIONS IN THIS SECTION]**

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**MULTIPLE CHOICE QUESTIONS [1-5] [ONE MARK EACH]**

1. Which one of the following is not a reportable disease
  - a) Malaria
  - b) Severe acute respiratory syndrome
  - c) Polio
  - d) Cholera
  
2. Which one of the following is a qualitative data collection method
  - a) Observation
  - b) Literature review
  - c) Population based surveys
  - d) Oral and written surveys
  
3. Which one of the following is not a subsystem of Health Information system
  - a) Health Information management systems
  - b) Surveys and census
  - c) Logistics management information system
  - d) None of the above
  
4. In conceiving Health Information systems it is important to consider the following except
  - a) Objective
  - b) Design method
  - c) Monitoring and Evaluation
  - d) Navigations
  
5. Interpretation of data requires a combination of the following except
  - a) Logic
  - b) Experience
  - c) Knowledge of the subject matter

- d) None of the above
- 6. List three characteristics of poor data collection tools (3 mks)
- 7. Enumerate the seven factors to be considered when designing Health Information system (7 mks)
- 8. List any five problems experienced in a working Health Information System ( 5 mks)
- 9. Differentiate between qualitative and quantitative data (4 mks)
- 10. Define the following terms (6 mks)
  - a) Health
  - b) Information
  - c) System
- 11. Enumerate five importance of maintaining a functional Health Information system (5 mks)
- 12. List five characteristics of good data (5 mks)

**SECTION B**

**[CHOOSE ANY THREE QUESTIONS]**

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- 1. a) Discuss the Information life cycle (15 mks)
  - b) Explain any five kind of information required by decision makers (5 mks)
- 2. Describe the following components of Health Information system ( 20 mks)
  - a) Health Information system Resources
  - b) Data management
  - c) Information product
  - d) Dissemination and use
- 3. Discuss the following data sources for Health Information system ( 20 mks)
  - a) Vital statistics

b) Routine data capture

c) Surveys

d) Scientific Research

4. Discuss the steps in designing a Health Information system (20 mks)

5. Discuss the following indicators (20 mks)

a) Input

b) Processes

c) Output

d) Outcome/impacts