

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR BACHELOR OF PUBLIC HEALTH

PUHE 426 – PUBLIC HEALTH INFORMATION SYSTEMS-MAIN

STREAMS: PUHE Y4S2

TIME: 2 HOURS

DAY/DATE:

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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 three sections. Answer ALL questions in Sections I, II and III.
4. All your answers for Section I (MCQs) should be on one page.
5. Number ALL your answers and indicate the order of appearance in the space provided in the cover page of the examination answer booklet.
6. Write your answers legibly and use your time wisely

SECTION 1: MULTIPLE CHOICE QUESTIONS [10 MARKS]

1. The statement "Any collection of components that work together to achieve a common objective" best describes

- a.) System
- b.) Health System
- c.) information
- d.) Management

2. Meaningless point in space and time, without reference to its surroundings is referred to

- a.) Knowledge

- b.) Data
- c.) Information
- d.) Wisdom

3. Which of the following best describes information

- a.) Just Data collection
- b.) Understanding of the relationship between pieces of data
- c.) data with reference to its context
- d.) facts and figure without context

4. The ultimate objective of health management information system is to improve health through

- a.) Evidence based decision making
- b.) providing management tool
- c.) option appraisal
- d.) quality control

5. Health Information Technology is used in a hospital for all of the following aspects except

- a.) Knowledge Management
- b.) Decision making
- c.) Communication
- e.) Sterilization

6. Telemedicine, Tele-radiology, Patient e-mail and Presentation are related to:

- a.) Communication
- b.) Decision Support
- c.) Knowledge Management
- d.) Sterilization

7. A manger could use information for all of the following except

- a.) Health policy formulation
- b.) Program planning

- c.)Resource mobilization and allocation
- d.) Running a biochemical in micro analyzer

8. The Central level (Ministry of Health) use health information mostly for

- a.)Health policy formulation
- b.)Implementation of Behavioral Health Unit services
- c.) Treatment of patient
- d.) Billing

9. Which one of the following records pertaining to the health is more comprehensive

- a.) Electronic Medical Record (EMR)
- b.)Electronic Health Record (HER)
- c.) Computerized patient records (CPRs).
- d.) personal Health record (PHR)

10. All of the following are limitations paper record except

- a.)The handwriting is unreadable
- b.) Expensive to copy
- c.)Easy to analyze
- d.)Missing of important documents

SECTION II: SHORT ANSWER QUESTIONS [40 MARKS]

1. Information for decision making is vital in guiding policy & action within the Ministry of health. Outline 5 sources of data in the health sector (5Marks)

2. Health system variables guide the framework of Health Information system management in Kenya. Describe 5 variables used to inform implementation of Management of information (5Marks).

3. Explain the Main 3 health system indicators in used for management of health information system (5Marks).
4. Describe 5 health management information subsystems which guide management of health information in healthcare facilities (5Marks).
5. Outline 5 benefits accrued from implementation of a strong healthcare information system (5Marks).
6. Describe the 5 main components of a functional Health management Information Systems in in which health sector data is managed (5Marks).
7. Explain the concept of a system in relation to health Management system (5Marks).
8. Explain 5 characteristics of good information for use in evidence based decision making (5Marks).

SECTION III: LONG ANSWER QUESTIONS [20 MARKS]

QUESTION ONE

Evolution of Health Management Information System has taken course overtime from 1980's and promoted efficiency and effectiveness in health services delivery. Discuss the aspect of computer based information systems giving examples (20Marks)