(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR

THIRD YEAR SECOND TRIMESTER EXAMINATIONS

FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN NURSING

COURSE CODE: NCG 323

COURSE TITLE: HEALTH MANAGEMENT INFORMATION SYSTEM

DATE: Wednesday, 12TH April 2023   **TIME:** 3-6PM

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in this paper.

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 5 Printed Pages. Please Turn Over. ▶

MULTIPLE CHOICE QUESTIONS (MCQS)   **(20 MARKS)**

1. The objective of the data quality audit tool is:-

   a)   Audit the entire monitoring and evaluation system of a country's response to HIV/AIDS, TB and Malaria.
   b)   Verify the quality of data reported for key indicators
   c)   Looks at non established standards programme level output indicators
   d)   Address a limited scope.

2. Data related to diagnostic test results of a patient can be classified as:-

   a)   Health related information
   b)   Clinical information
   c)   Health management information
   d)   Health services information

3. Nominal data:-

   a)   Refers to data placed in some kind of order or scale.
   b)   Comes in form of a numerical value where difference between points is standardized.
   c)   Is like interval data
   d)   Entails data which can be separated into discrete categories which do not overlap.

4. Two key obligations of health policy 2014-2030 are:-

   a)   Realization of fundamental human rights and social accountability.
   b)   Realization of fundamental human rights and contribution to economic development as envisioned by vision 2030
   c)   Economic development and social accountability
   d)   Realization of fundamental human rights and equity

5. The function of management that involves measuring the performance of employees to ensure that quality data is realized in an organization is known as:

   a)   Directing
   b)   Controlling
   c)   Authority
   d)   Staffing

6. The acronym IRM in health management information system refers to:-

   a)   Information resource Mapping
   b)   Information resource management.
   c)   Information risk management.
   d)   Innovative resource management

7. Which of the following Health Management Information System instruments is misplaced:-.

   a)   Maternal Child Booklet
   b)   CHANIS record
   c)   Outpatient Record Register
   d)   Immunization tally sheet

8. Which of the following information will be helpful in facility performance /coverage assessment:-

    a.   Stock out information
    b.   Hospital staff as per the standards
    c.   Number of pneumonia cases admitted in the hospital
    d.   Percentage of pregnant women delivered at the health facility.

9. Sources of data for Health Management Information System include:-

    a)   Registers, census reports, tallies
    b)   Census reports, tallies, surveys
    c)   Surveys, registers, tallies
    d)   Surveys, census, registers

10. HMIS reforms are required to:-

    a)   Reduce data burden
    b)   Limit information partnerships
    c)   Correct limited funding
    d)   Enhance culture of information generation and use.

11. A variable that permits to measure a given condition over time is called:-

    a)   Target
    b)   Indicator
    c)   Baseline
    d)   Data

12. Which of the following is true about Health Management Information system:-

    a)   Data collection system specifically designed to support patient care only
    b)   It is one of the six building blocks essential for health system strengthening.
    c)   It is data analysis software
    d)   It captures mainly manual data.

13. Factors that affect value of information include:-

    a)   Timeliness
    b)   Efficiency
    c)   Context
    d)   Nature of recipient.

14. Data collation refers to:-

    a)   Data collection
    b)   Presentation of data.
    c)   Assembly of written information into standard order.
    d)   Data capture and recording

15. Which of the following is TRUE about plans for dissemination and use of information:-

    a)   It should only target the relevant group or population.
    b)   Same information products are expected to be produced for reporting and dissemination
    c)   During dissemination, print and broadcast media for general population

d) Patients, community health volunteers and health care staffs are the only beneficiary of health information.

16. District Health Information software (DHIS2):-

a) Has been changed to county Health Information system(CHIS 2)
b) Is a tool for collection, validation, analysis and presentation of aggregated data.
c) It only hosts community health information system
d) Not tailored to integrated health information management.

17. Data repository:-

a) Is a form of data collection platform?
b) Entails a set of logically and un related data stored together
c) Entails a set of logically and related data stored together
d) Focuses on electronic data only

18. Indexing of data sets refers to:

a) Getting the right information to right manager at the right time
b) Providing for storage of information to permit its use again if needed
c) Classifying information for storage and retrieval purposes
d) Categorization of data.

19. Which of the following is not a key function of health information system:-

a) Data generation
b) Data compilation
c) Data analysis and synthesis
d) Data Mapping

For Question 20 i and ii, Indicate if TRUE or False

20. i) Reports, documents, summaries, alerts, and decision actions are all examples of information output.

ii) Health Management Information System is one of the key pillars of the Health System

PART TWO: - SHORT ANSWER QUESTIONS   **(40 Marks)**

1. Define the following terms

    a) Information system   2 marks

    b) Data collation   2marks

    c) Information partnership   2marks

2. Outline **four** (4) aspects of data quality   4 marks

3. Distinguish between data and information   6 marks

4. State **five** (5) characteristics of good information   (5 marks)

5. Describe any **five** (5) security measures you would put in place to ensure data security and confidentiality.   (10 marks)

6. Discuss **three** (3) common deficiencies existing in the Kenya health management information system (9 marks)

SECTION C [LONG ANSWER QUESTIONS]   **(40 marks)**

1. Discuss the steps used in developing a Health Management Information System   [20 marks]

2. Describe different stages and processes data must undergo in order for the health organization to utilize it objectively   [20 marks]