Manmohan Technical University
Office of the Controller of Examinations
Exam Year: 2081, Chaitra (Model Question)

Exam Roll: ………………………… Invigilator's Sign: ………………..

Exam Roll in words: …………………..……………………………………

School: SOASTL	Level: Master	
Program: MHHM	Year/Part: I/I	Superintendent's Sign: …………
Subject: Health Information System (MHHM105)	Code No. …………………………	

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| **GROUP A** *(Multiple-Choice Questions)* **Page - 1** | **[20x1=20]** | **Maximum Time: 20 Minutes** Code No. |

i.   There are 20 numbers of MCQs provided in this group.
ii.   Answers should be given by filling the Multiple-Choice Questions' Answer Sheet.
iii.   The main answer sheet can be used for rough work.
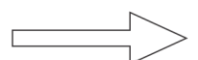iv.   No mark will be awarded for cutting, erasing, over writing and multiple circles shading.

1. What does MIS stand for?
   A) Management Information System
   B) Medical Information System
   C) Management Integration System
   D) Medical Integration System

2. Which of the following is a component of HIS?
   A) Data Processing
   B) Patient Registration
   C) Financial Accounting
   D) All of the above

3. What is the primary function of a Data Warehouse?
   A) Data Storage
   B) Data Analysis
   C) Data Entry
   D) Data Deletion

4. Which standard is used for electronic health information exchange?
   A) ISO 9001
   B) HL7
   C) HIPAA
   D) ICD-10

5. What does SQL stand for?
   A) Structured Query Language
   B) Simple Query Language
   C) Standard Query Language
   D) System Query Language

6. Which of the following is a type of DBMS?
   A) Hierarchical
   B) Network
   C) Relational
   D) All of the above

7. What is the purpose of a firewall in information systems?
   A) Data Storage
   B) Data Protection
   C) Data Analysis
   D) Data Entry

8. What is the full form of PACS in healthcare?
   A) Patient Archiving and Communication System
   B) Picture Archiving and Communication System
   C) Provider Archiving and Communication System
   D) Physician Archiving and Communication System

9. Which of the following is an advantage of computerized information systems?
   A) Increased Efficiency
   B) Data Redundancy
   C) High Cost
   D) Manual Errors

10. What is the role of a Nursing Management and Documentation System (NMDS)?
    A) Patient Registration
    B) Nursing Documentation
    C) Financial Accounting
    D) Data Analysis

Multiple Choice Questions' Answer Sheet for questions from number 1 to 10
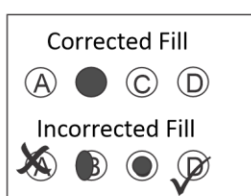
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5. Ⓐ Ⓑ Ⓒ Ⓓ	10. Ⓐ Ⓑ Ⓒ Ⓓ

11. What does CPOE stand for?
    A) Computerized Provider Order Entry
    B) Centralized Patient Order Entry
    C) Computerized Patient Order Entry
    D) Centralized Provider Order Entry
12. Which of the following is a function of an Operation Management System (OMS)?
    A) Patient Registration
    B) Surgery Scheduling
    C) Financial Accounting
    D) Data Analysis
13. What is the primary purpose of a Clinical Information System (CIS)?
    A) Data Storage
    B) Clinical Documentation
    C) Financial Accounting
    D) Patient Registration
14. What does EHR stand for?
    A) Electronic Health Record
    B) Electronic Hospital Record
    C) Electronic Health Registration
    D) Electronic Hospital Registration
15. Which of the following is a type of cybercrime?
    A) Phishing
    B) Data Entry
    C) Data Analysis
    D) Data Storage
16. What is the role of antispyware in information systems?
    A) Data Storage
    B) Data Protection
    C) Data Analysis
    D) Data Entry
17. What is the primary function of a Data Mart?
    A) Data Storage
    B) Data Analysis
    C) Data Entry
    D) Data Deletion
18. What does RIS stand for in a hospital setting?
    A) Radiology Information System
    B) Registration Information System
    C) Resource Information System
    D) Radiology Integration System
19. Which of the following is a benefit of using Electronic Health Records (EHR)?
    A) Improved patient care
    B) Increased paperwork
    C) Higher costs
    D) Manual data entry
20. What is the main function of a Pharmacy Information System (PIS)?
    A) Managing medication inventory and dispensing
    B) Patient Registration
    C) Financial Accounting
    D) Data Analysis

Multiple Choice Questions' Answer Sheet for questions from number 11 to 20
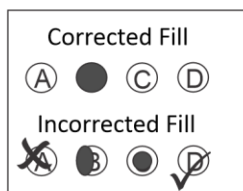
Marks Secured in MCQ: _____

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Examiner's Sign: _____ Date: _____

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Scrutinizer's Sign: _____ Date: _____

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11.	Ⓐ Ⓑ Ⓒ Ⓓ	16.	Ⓐ Ⓑ Ⓒ Ⓓ
12.	Ⓐ Ⓑ Ⓒ Ⓓ	17.	Ⓐ Ⓑ Ⓒ Ⓓ
13.	Ⓐ Ⓑ Ⓒ Ⓓ	18.	Ⓐ Ⓑ Ⓒ Ⓓ
14.	Ⓐ Ⓑ Ⓒ Ⓓ	19.	Ⓐ Ⓑ Ⓒ Ⓓ
15.	Ⓐ Ⓑ Ⓒ Ⓓ	20.	Ⓐ Ⓑ Ⓒ Ⓓ

School: SOASTL	Level: Master	Time: 3 Hours
Program: MHHM	Year/Part: I/I	Full Marks: 100
Subject: Health Information System (MHHM105)		Pass Marks: 50

✓ *Candidates are required to give their answers in their own words as far as practicable.*
✓ *The figures in the margin indicate Full Marks.*
✓ *Assume suitable data if necessary.*

GROUP A *(Multiple-Choice Questions are provided on separate sheet)*   **[20x1=20]**

GROUP B *(Problem Based Question – **Attempt Any One)***   **[1×15=15]**

1. Explain the structure of a Management Information System (MIS) specific to a hospital. Discuss its components, role and how it supports decision-making and strategic design.   [5+4+4+2]
2. Discuss the emerging concepts in information system design and application. How do these concepts impact the efficiency and effectiveness of hospital information systems?   [10+5]

GROUP C *(Long Answer Questions - **Attempt Any Four)***   **[4×10=40]**

3. Describe the architecture and infrastructure of Health Information Systems (HIS). How do these systems support various healthcare settings and subsystems?
4. Compare and contrast manual information systems with computerized information systems. What are the advantages and disadvantages of each?
5. List and explain various modules of hospital information system?
6. Discuss the role of IT in healthcare. Why is it important to have centralized system than decentralized systems in hospitals?
7. Describe the strategic, tactical, and operational management of information systems in healthcare. How do these management levels impact the overall performance of HIS?

GROUP D *(Short Answer Questions - **Attempt Any Five)***   **[5×5=25]**

8. Define the terms data, information, and knowledge. How are they related in the context of HIS?
9. What is the Health Level Seven (HL7) standard? Explain Malicious Software?
10. Explain the concept of a Master Patient Index (MPI). How is Artificial Intelligence relevant in context to Nepal?
11. What are the basic operations of SQL queries? Discuss with examples.
12. Describe the threats and management strategies for information security in healthcare.
13. What is the role of antivirus and antispyware in securing health information systems?

∞∞ ***The End*** ∞∞