



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCES

DEPARTMENT OF HEALTH SCIENCES

QUALIFICATION: BACHELOR OF SCIENCE IN HEALTH INFORMATION SYSTEMS MANAGEMENT	
QUALIFICATION CODE: 07BHIS	LEVEL: 6
COURSE: POLICY IN HEALTH INFORMATION SYSTEMS	COURSE CODE: PHS611S
SESSION: JULY 2022	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

SUPPLEMENTARY/SECOND OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER	Ms Indaa Paulus
MODERATOR	Ms Elizabeth Ndakukamo

INSTRUCTIONS
<ol style="list-style-type: none">1. Answer ALL the questions.2. Write clearly and neatly.3. Marks for each question are indicated at the end of each question.

THIS QUESTION PAPER CONSISTS OF 4 PAGES (including this front page)

[SECTION A]

QUESTION 1

[20 MARKS]

- 1.1 Assess whether the following statements are **True** or **False**.
(One mark for each question) (10)
- 1.1.1 Spyware and Adware are examples of cybersquatting.
 - 1.1.2 Behavioural fragmentation results from narrow programmatic interests, inadequate training and the lack of appropriate skills of health managers and providers.
 - 1.1.3 Privacy is observation or intrusion into one's private affairs and to maintain control over certain personal and health information.
 - 1.1.4 PSEMAS stands for Public Service Employability Medical Aid Scheme.
 - 1.1.5 To maintain confidentiality, authorized third parties must be prevented from accessing and viewing medical data.
 - 1.1.6 Different categories of data require different levels of protection based on their sensitivity.
 - 1.1.7 Data collection refers to all aspects of data handling from storage, quality assurance and flow to processing, compilation and analysis.
 - 1.1.8 Open MRS is an electronic medical record system with a focus on primary health care services.
 - 1.1.9 Data integration allows patients and their selected representatives to access their health information electronically.
 - 1.1.10 Denial of service attacks are known to disrupt the computer operations and affect data stored.
- 1.2 Enumerate the six (6) inputs and outputs to a Health Information System. (6)
- 1.3 Identify four (4) overall health system goals/outcomes according to the World Health Organization (WHO) framework. (4)

[SECTION B]

QUESTION 2

[20 MARKS]

2.1 Differentiate between the following concepts and provide suitable examples:

- 2.1.1 Health System and Health Information System (4)
- 2.1.2 Interoperability and eHealth Interoperability (2)
- 2.1.3 Sensitive Data and Non-Sensitive Data (4)
- 2.1.4 The computer as a Weapon and as a Target (6)
- 2.1.5 Technical Interoperability and Semantic Interoperability (4)

[SECTION C]

QUESTION 3

[20 MARKS]

3.1 Describe the following terms:

- 3.1.1 Information Security (3)
- 3.1.2 Health Information Exchange (3)
- 3.1.3 Cybercrime (3)
- 3.1.4 Data Quality (3)
- 3.1.5 Unauthorized Intrusion (3)

3.2 Outline any two (2) ways for achieving Health Information System Integration (2)

3.3 Describe any three (3) revolutionary drivers for digitalized Health Information Systems (3)

[SECTION D]

QUESTION 4

[40 MARKS]

- 4.1 Discuss the six (6) main tools to maintain security and privacy of personal Health Information. (18)
- 4.2 Describe any five (5) types of Cybercrime activities. (10)
- 4.3 Discuss the six (6) overall Health System building blocks. Use the World Health Organization functional model in figure 1 below. (12)

THE WHO HEALTH SYSTEM FRAMEWORK

SYSTEM BUILDING BLOCKS

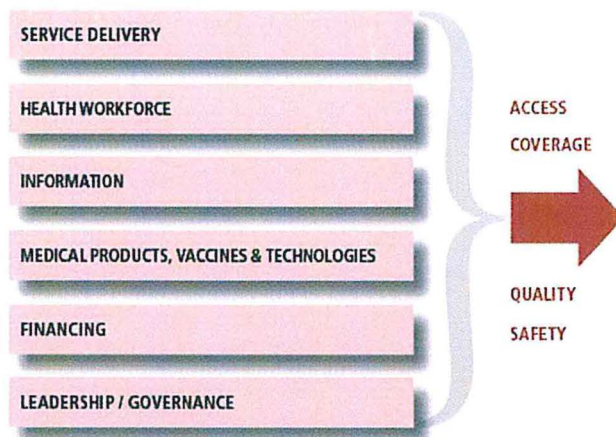


Figure 1

TOTAL: 100 MARKS

BEST OF LUCK