NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY

FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCES

DEPARTMENT OF HEALTH SCIENCES

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

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER	Ms Indaa Paulus
MODERATOR	Ms Elizabeth Ndakukamo

INSTRUCTIONS
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 3 PAGES (including this front page)

QUESTION 1   **[20 MARKS]**

1.1   Assess whether the following statements are **True** or **False**.
        (One mark for each question)   (10)

1.1.1   Universal access to health services is not possible without policies to assure affordable access to essential medicines.

1.1.2   The health information management professional's responsibilities includes ensuring confidential information are protected and that data security measures are used to prevent unauthorized access to information.

1.1.3   Physical control access is a form of authentication.

1.1.4   Digital signatures are tools used to check data alteration.

1.1.5   Non sensitive data is when processing is not permitted without the individual's consent under certain conditions.

1.1.6   Health information should be protected from unauthorized processing and access.

1.1.7   PSEMAS stands for Public Service Employability Medical Aid Scheme.

1.1.8   Health information systems diminish the quality of healthcare services and storage costs.

1.1.9   eHealth interoperability is the ability of two or more health systems to use and exchange both computer interpretable data and human understandable data and knowledge.

1.1.10 Denial of service attacks are known to disrupt the computer operation and affect the data stored either by modifying it or by deleting it altogether.

1.2   Enumerate the six (6) Health Systems building blocks   (6)

1.3   Identify any four (4) benefits of Health Information Systems   (4)

QUESTION 2   **[20 MARKS]**

2.1   Differentiate between the following concepts:

2.1.1   Data Quality and Data Verification   (2)

2.1.2   Accidental Disclosure and Insider Curiosity   (4)

2.1.3   Privacy, Confidentiality and Information Security   (6)

2.1.4   Cyber Theft and Cyber Warfare   (4)

2.1.5   Institution- Driven Interoperability and Patient-Driven Interoperability   (4)

[SECTION C]

QUESTION 3   **[20 MARKS]**

3.1   Define the following terms and provide suitable examples for each:

3.1.1   Authentication   (3)

3.1.2   Cybercrime   (3)

3.1.3   Health Information System   (3)

3.1.4   Software Piracy   (3)

3.1.5   Personal Information   (3)

3.1.6   The computer as a Weapon and as a Target   (5)

[SECTION D]

QUESTION 4   **[40 MARKS]**

4.1   Describe the 6 components of a Health Information System input and output to a
        group of first year Health Information Systems students.   (20)

4.2   You are employed as a Health Programme Officer (HPO) by the Ministry of Health
        and Social Services. The hospital is currently experiencing challenges due to
        fragmented systems. Given an opportunity, advice the Director on:

4.2.1   The main causes of systems fragmentation   (15)

4.2.2   How to achieve Health Information Systems integration   (5)

TOTAL: 100 MARKS

GOOD LUCK