



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

**Faculty of Health, Natural
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QUALIFICATION : BACHELOR OF SCIENCE IN HEALTH INFORMATION SYSTEMS MANAGEMENT	
QUALIFICATION CODE: 07BSHM	LEVEL: 6
COURSE: HEALTHCARE DELIVERY SYSTEMS	COURSE CODE: HDS621S
DATE: JANUARY 2024	SESSION: 2
DURATION: 3 HOURS	MARKS: 100

SECOND OPPORTUNITY/SUPPLEMENTARY: EXAMINATION QUESTION PAPER

EXAMINER: MS ELIZABETH NDAKUKAMO/DR ROSWITHA MAHALIE

MODERATOR: MS INDAA PAULUS

INSTRUCTIONS:

1. Answer all questions on the separate answer sheet.
2. Please write neatly and legibly.
3. Do not use the left side margin of the exam paper. This must be allowed for the examiner.
4. No books, notes and other additional aids are allowed.
5. Mark all answers clearly with their respective question numbers.

PERMISSIBLE MATERIALS:

1. None

ATTACHMENTS:

1. None

This paper consists of 4 pages including this front page.

QUESTION 1: TRUE/FALSE QUESTIONS**(20 MARKS)**

Evaluate the statements and select whether the statement is true or false. Write the word 'True' or 'False' next to the corresponding number on your ANSWER SHEET. A mark will be awarded for stating whether the statement is True or False and a mark for the justification.

- 1.1 Every person belongs to one of eight blood groups.
- 1.2 The WHO has classified the bio-medical waste into six categories.
- 1.3 Autoclaving is the process of burning municipal solid waste in a properly designed furnace under suitable temperatures and operating conditions.
- 1.4 Fluoroscopy is a medical specialization that involves undertaking a range of imaging procedures to obtain images of the inside of the body.
- 1.5 An objective view is when a hospitalised patient tells the healthcare worker that he/she feels weak and nauseous after surgery.
- 1.6 Quality assurance is any systematic process of checking to see whether a product or service being developed is meeting specified requirements.
- 1.7 Most common barriers in managing health information is lack of multiple and differences in donors reporting.
- 1.8 Long term care facilities are also referred to as residential care facilities.
- 1.9 The primary goal of data management in healthcare is to ensure the accuracy, accessibility, and reliability of data for various purposes, including patient care, decision- making, research, and compliance with regulations
- 1.10 Pie charts illustrate proportions and percentages, making them suitable for showing the distribution of patient demographics or medical conditions

QUESTION 2: DEFINITION OF CONCEPTS/EXPLICATING TERMS**(20 MARKS)**

Explicate the following terms to a group of First-year students enrolled in the Bachelor of Science in Health Information Systems Management at the Namibia University of Science and Technology.

- | | |
|--------------------------|-----|
| 2.1 Data stewards | (4) |
| 2.2 Intensive care units | (3) |
| 2.3 Data governance | (4) |
| 2.4 Average daily census | (4) |
| 2.5 Job Description | (2) |
| 2.6 Data interpretation | (3) |

QUESTION 3: MATCHING QUESTIONS

(10 MARKS)

Match the appropriate answer from Column A with a meaning in Column B. Write the appropriate letter next to the corresponding number on your ANSWER SHEET, e.g., 3.1 A. Each question earns one 1 mark.

Nr.	Column A		Column B
3.1	The process of identifying the patient's condition or illness	A	Residential care facilities
3.2	Central location displays vital sign values	B	Treatment
3.3	Summary information about all of the patients that a physician has seen	C	Ambulatory care centres
3.4	Long-term care facilities	D	Oxygen, non-invasive monitoring
3.5	Need monitoring during a specific type of therapy	E	Role redefinition
3.6	A level 1 ICU is capable of providing...	F	Type of extra care provided in OR
3.7	The result of a patient's treatment	G	Disaggregated data
3.8	The clarification of roles and an attempt to integrate various roles individuals play	H	Diagnosis
3.9	Detect the presence of antibodies in the recipient against the red blood cells of the donor.	I	Type of extra care provided in ICU
		J	Blood Transfusion
		K	Vaccines
3.10	Which of the solid wastes describes the term 'Municipal Solid Waste.	L	Toxic
		M	Invasive monitoring and basic life support
		N	Aggregated data
		O	Inotropic support
		P	Outcome
		Q	Crossmatch
		R	Hazardous
		S	Intensive support
		T	Blood compatibility
		U	Non-hazardous

QUESTION 4: SHORT/LONG ANSWER QUESTIONS**(20 MARKS)**

4.1 You were recently hired to work as a Health Information Officer at Windhoek Central Hospital Radiology Department. The department is the only one in Namibia that uses a prominent electronic system that is designed to replace the traditional film-based methods of storing and managing images like X-rays, CT scans, MRIs, and more. Answer the following questions:

- 4.1.1 Mention the above system (2)
- 4.1.2 Summarise the four (4) basic components of the system mentioned in (4.1.1). (8)
- 4.1.3 Convince the Minister of Health and Social Services on the essentials of decentralising the utilisation of the same system in Namibia. (10)

QUESTION 5: SHORT/LONG ANSWER QUESTIONS**(30 MARKS)**

- 5.1 Enumerate the four (4) levels of emergency care providers. (4)
- 5.2 Explain any of the seven (7) common terms and nomenclature used in the operating room. (14)
- 5.3 A well-structured and orderly clinical record provides reliable knowledge of patients' continuing problems. Describe the key data management practices. (12)

END OF QUESTION PAPER