



**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: 07BHIS | LEVEL: 6 |
| COURSE: HEALTH INFORMATION MANAGEMENT | COURSE CODE: HIM621S |
| DATE: NOVEMBER 2023 | SESSION: 1 |
| DURATION: 3 HOURS | MARKS: 100 |

FIRST OPPORTUNITY: 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 3 pages including this front page.

SECTION A: TRUE / FALSE AND DEFINITION OF CONCEPTS/FILL IN THE BLANKS [55 MARKS]

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 Fluoroscopy is a medical specialization that involves undertaking a range of imaging procedures to obtain images of the inside of the body.
- 1.2 Segregation is the biggest obstacle in managing municipal solid wastes in Namibia.
- 1.3 The rarest blood type is O- and the most common blood type is AB+.
- 1.4 Barcode Scanning and Tracking Systems are used in medical stores to establish accurate inventory control.
- 1.5 Air pollution is the most serious environmental effect posed by hazardous wastes.
- 1.6 Curative intends to relieve pain rather than cure the disease.
- 1.7 One of the duties of the outpatient department staff is maintenance of a Patient Beta index.
- 1.8 The patient who leaves against medical advice should be considered as discharged.
- 1.9 Stratification is based on 13 variables according to Marshall et al., (2017).
- 1.10 In the Franco-German System is regarded as physician-dependent.

QUESTION 2: DEFINITION OF CONCEPTS/EXPLICATING TERMS

(15 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 Blood haemolysis (5)
- 2.2 Material Resource Planning (MRP) System (3)
- 2.3 The medical decision-making process (4)
- 2.4 Instrument Card File (3)

QUESTION 3: FILL IN THE BLANKS

(5 MARKS)

Evaluate the below statements and fill in the missing words. Each answer earns one mark.

- 3.1 Primary health care facilities are the _____ of contact for the patient/client
- 3.2 Knowledge of _____ used to designate certain operative procedures is one of the key rules of OR.
- 3.3 The _____ sets forth step-by-step instructions for the performance of tasks within the surgical suite.
- 3.4 Waste materials that do not pose an immediate threat to human health or

- the environment is _____.
- 3.5 The act of removing blood from a patient using a needle is called _____.

SECTION B SHORT/LONG ANSWER QUESTIONS [60 MARKS]

QUESTION 4: SHORT/LONG ANSWER QUESTIONS (25 MARKS)

Data and information are the lifeblood of any healthcare system, and blood bank departments are no exception. The Blood Transfusion Service of Namibia (NamBTS) is responsible for collecting, testing & issuing safe & sufficient blood products in Namibia, however, the company is still using the paper-based health system when handling data.

- 4.1 Write to the Chief Executive Officer of the NamBTS describing at least any five (5) electronic systems that his company can utilise. (10)
- 4.2 Summarise any four (4) data storage methods that the company can employ. (10)
- 4.3 A well-structured and orderly clinical medical records provides reliable knowledge of patients' continuing problems. Outline the aspects that warrants a medical record and reporting system contains sufficient information. (5)

QUESTION 5: SHORT/LONG ANSWER QUESTIONS (35 MARKS)

- 5.1 Describe the various techniques of hazardous waste management commonly used in health care facilities. (12)
- 5.2 A 60-year-old male presented to the outpatient dialysis centre for his regular haemodialysis. He was diagnosed 4 years ago with a severe case of pyelonephritis that resulted in renal failure. The patient collapsed at the outpatient department and was admitted in the Intensive Care Unit. Outline the reasons that warrants admission to the Intensive Care Unit. (8)
- 5.3 Describe the concept 'data review' under the following headings. (15)
- 5.3.1 Definition (4)
 - 5.3.2 Why is data review important? (5)
 - 5.3.3 State the four-phase process in response to the "How" question in the data review process. (6)

END OF QUESTION PAPER