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OF SCIENCE AND TECHNOLOGY**

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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 2025	SESSION: 2
DURATION: 3 HOURS	MARKS: 100

SECOND OPPORTUNITY/SUPPLEMENTARY EXAMINATION: QUESTION PAPER

EXAMINER: MS ELIZABETH NDAKUKAMO-KASINO

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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 question paper consists of 3 pages including this front page

SECTION A: TRUE / FALSE AND DIFFERENTIATING CONCEPTS**[47 MARKS]****QUESTION 1****(40)**

1.1 Evaluate the statements and select whether the statement is **True** or **False**. Justify your answer.

One (1) mark for stating whether the statement is true or false and one (1) mark for the justification.

(20)

- 1.1.1 In a fluid location system, each stock item is allocated to specific shelves, pallet racking, or an area of the floor.
- 1.1.2 At least 80% of the Namibian population now live within 20 kilometers of a clinic.
- 1.1.3 Role underload is the frustration from being underutilised at the workplace.
- 1.1.4 Curative surgery is when a part of the body is repaired or reconstructed.
- 1.1.5 Plasma, red blood cells, and white blood cells are the main components of the human blood.
- 1.1.6 The surgeon's preference cards contain information as to the types of sutures, needles, and stitches required for a procedure.
- 1.1.7 The most common blood type is O+, and the rarest is AB-.
- 1.1.8 Fluoroscopy is a medical specialization that involves undertaking a range of imaging procedures to obtain images of the inside of the body.
- 1.1.9 Scrubbing of data deals with detecting and removing errors and inconsistencies from data.
- 1.1.10 Blood banks perform cross-matching tests to screen donated blood for infectious diseases, including Human Immunodeficiency Virus (HIV), hepatitis B and C, syphilis, and others.

1.2 Differentiate between the following terms as used in Health Information Systems management.

(27)

- 1.2.1 Biomedical and hazardous waste **(4)**
- 1.2.2 Incineration and Autoclaving **(4)**
- 1.2.3 Material Resource Planning System and Electronic Data Interchange System **(6)**
- 1.2.4 Platelets and Plasma **(6)**
- 1.2.5 Continuum of care and Interdisciplinary collaboration **(7)**

SECTION B: SHORT/LONG QUESTIONS**[53 MARKS]****QUESTION 2****(26)**

2.1 As a Health Information Officer responsible for managing a hospital's medical supplies store, You have been tasked with improving store operations due to recent challenges such as stockouts, disorganization, and expired products. Describe ten (10) key characteristics of a well-managed store operation that would help maintain adequate stock levels, ensure proper organization of supplies and manage stock expiration.

(10)

2.2 Recovery from a major surgery is one of the reasons that warrants admission to an intensive care unit (ICU). Respond to the following questions below:

- 2.2.1 Define the term 'intensive care unit'. **(1)**
- 2.2.2 What does the abbreviation eRIC stand for **(1)**
- 2.2.3 Explain the type of care provided in ICU. **(10)**

2.3 Outline the reasons why a medical record and reporting system must contain sufficient Information.

(4)

QUESTION 3

(27)

3.0 Ms Fifa is day 1 total abdominal **hysterectomy** and **bilateral salpingectomy**. She complains at 5 am of severe abdominal pain. She is kept rehydrated with Ringers Lactate intravenous infusion g.i.d. She looks disoriented and is grimacing. The nurse did not notice any active bleeding from the Operation wound. Her heartrate is 92bpm; BP 154/99; Respiration: 22; Saturation: 80%. The nurse administers morphine sulphate 4mg i.m.i. The nurse evaluates Ms Fifa's pain after administering morphine sulphate. Ms Fifa informed the nurse that her pain has ceased after the injection. She assessed the patient and noted that she is well oriented. The nurse took a second round of **parameters**. The following were recorded: BP 130/89; heartrate 72 bpm; Respiration: 18; Saturation: 94%.

- 3.1 Write the explanation of the medical terms written in bold in the scenario above. (4)
- 3.2 Write the meaning of the abbreviations that are underlined in the scenario. (4)
- 3.3 Propose guidelines (with examples) on the medical decision-making process to be used by health Care workers. (15)
- 3.4 Highlight common barriers to generating well-structured and orderly clinical records for programme decision making. (4)

END OF QUESTION PAPER