∩AMIBIA U∩IVERSITY
OF SCIENCE AND TECHNOLOGY

Faculty of Health, Natural Resources and Applied Sciences

School of Health Sciences

Department of Preventative Health Sciences

QUALIFICATION : **BACHELOR OF SCIENCE IN HEALTH INFORMATION SYSTEMS MANAGEMENT**	
QUALIFICATION CODE: **07BSHM**	LEVEL: **6**
COURSE: **HEALTHCARE DELIVERY SYSTEMS**	COURSE CODE: **HDS621S**
DATE: **NOVEMBER 2024**	SESSION: 1
DURATION: **3 HOURS**	MARKS: **100**

FIRST OPPORTUNITY: EXAMINATION QUESTION PAPER

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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 will be utilised by 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.

QUESTION 1 (20)

1.1 Define the following terms. Each answer earns two (2) marks. (10)
    1.1.1 Rule-out
    1.1.2 Continuum of care
    1.1.3 Franco-German Emergency Systems
    1.1.4 Role re-definition
    1.1.5 Data review process

1.2 Fill the missing words in the statements below. Each answer earns one (1) mark. (10)
    1.2.1 _____ refers to the assigning of tasks, determining expected results and transferring responsibilities (authority) to another individual to accomplish these tasks.
    1.2.2 _____ is a list of responsibilities to be accomplished withing a specific timeframe.
    1.2.3 _____ is the reconstruction, reforming, fixation, or stabilization of a part.
    1.2.4 _____ surgery is done when a part of the body is repaired or reconstructed.
    1.2.5 The _____ sets forth step-by-step instructions for the performance of tasks within the surgical suite.
    1.2.6 _____ present figures as cells in spreadsheet format.
    1.2.7 _____ are used to display and compare numbers and frequency for different elements.
    1.2.8 All utilized materials and linen that are gathered, packaged, and sent to appropriate areas from the _____ area.
    1.2.9 _____ facility is an example of long-term care facilities.
    1.2.10 At least 80% of the Namibian population now live within _____ kilometers of a clinic.

QUESTION 2 (23)

2.0 Mrs. Serenity had a **laparoscopic cholecystectomy** 2 days ago. At 04h00 am, she complains of severe abdominal pain and dizziness. She is kept rehydrated with Plasmolyte B intravenous infusion tds. She looks disoriented and is grimacing. The nurse did not notice any active bleeding from the operation wound. Her heartrate is 92bpm; BP 155/118; Respiration: 22; Saturation: 85%. The nurse administers pethidine 25mg i.m.i. The nurse took a second round of parameters after 2 hours. The following were recorded: BP 129/87; heartrate 72 bpm; Respiration: 18; Saturation: 94%.

   2.1 Write the meaning of the medical terms written in bold in the scenario above. (4)
   2.2 Write the meaning of the abbreviations that are underlined in the scenario. (3)
   2.3 Using the abovementioned scenario propose guidelines on the medical decision-making process to be used by health care workers to assess Mrs Serenity's health at various intervals. (16)

QUESTION 3 (17)

3.0 You have been appointed as a Health Programme Officer heading the Department of Health Information Systems (HIS) at Swakopmund District Hospital, responsible for overseeing the diagnostic services in the facility. The hospital provides a range of diagnostic services, including blood tests, imaging services (X-rays and ultrasounds), and genetic testing. Recently, the hospital has been experiencing delays in test results and challenges in managing diagnostic data, which has affected patient care. As a new manager, your task is to streamline the laboratory operations and improve the quality of service.

    3.1 Discuss the solutions you would take to improve the speed and accuracy of diagnostic services at the hospital, considering the issues of delayed results and data management. (10)

    3.2 Elucidate how the integration of technology, such as a Picture Archiving and Communication System (PACS) or Radiology Information System (RIS), could help solve the data management challenges in the laboratory and improve patient care. (7)

SECTION C: SHORT/LONG QUESTIONS   **[40 MARKS]**

QUESTION 4 (24)

4.1 As the newly appointed Health Programme Officer at Engela State Hospital, you are responsible for managing the hospital's waste management system. The hospital faces several challenges, including inadequate segregation of waste, which has raised concerns about potential infection risks for staff. Describe different types of hospital waste and their handling. (20)

4.2 Specify the various waste management practices commonly utilised at the facility mentioned in (4.1). (4)

QUESTION 5 (16)

5.1 A well-structured and orderly clinical record provides reliable knowledge of patients' continuing problems. Describe the six (6) key data management processes. (12)

5.2 Emergency Medical Rescue Services (EMRS) are specialised services that involve pre-hospital care and transportation of patients from the scene of an accident/episode to health care facilities. Discuss the aspects of early intervention within the healthcare value chain. (4)

END OF QUESTION PAPER