"Investing in Africa's Future"

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

NSH1 200: HEALTH INFORMATICS

END OF SECOND SEMESTER EXAMINATIONS

APRIL 2024

LECTURER: MR. E. CHIKAKA

DURATION: 3 HOURS

INSTRUCTIONS

ANSWER **ALL** QUESTIONS FROM **SECTION A** AND **ANY THREE (3)** FROM **SECTION B**

THE MARK ALLOCATION FOR EACH QUESTION IS INDICATED AT THE END OF THE QUESTION

CREDIT WILL BE GIVEN FOR LOGICAL, SYSTEMATIC AND NEAT PRESENTATION

SECTION A [40 MARKS]

ANSWER ALL QUESTIONS

QUESTION 1

    a.   What do you understand by Health Informatics? Why do we need informatics?[5]

    b.   What is telehealth, and how does it expand access to healthcare services? Discuss the benefits and challenges associated with the adoption of telehealth technologies. [10]

QUESTION 2

List and explain the ethical issues in health informatics. [10]

QUESTION 3

Identify five stakeholders in health informatics. [5]

QUESTION 4

In your view, what are the DRIVING factors to adopt an Electronic Medical Record (EMR) in your country? [10]

SECTION B [60 MARKS]

QUESTION 5

Describe the challenges faced by developing countries in implementing health informatics systems. Discuss potential strategies to overcome these challenges. [20]

QUESTION 6

There are several key models in health informatics that approach how to effectively integrate technology systems and people • These include: – Technology Acceptance Model – Disruptive Innovation – Diffusion of Innovation – Sociotechnical Theory Model Define and explain each of the above models. [20]

QUESTION 7

a. What is Enterprise Health Architecture? [5]
b. Discuss the extent to which enterprise health architecture has been included in your country's health delivery system [15]

QUESTION 8

Explain the concept of data analytics in health informatics. How can healthcare organizations use data analytics to improve patient outcomes and operational efficiency? [20]