

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES DEPARTMENT OF PUBLIC HEALTH AND NURSING (DPHN) NSH1 200: HEALTH INFORMATICS (BHSM/BMLS)

END OF FIRST SEMESTER EXAMINATIONS

NOV/DEC 2023

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

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

QUESTION 2

What are the barriers to introducing / using HER in your country? [10]

QUESTION 3

List and explain the KEY elements of informatics [10]

QUESTION 4

Identify the factors motivating the implementation of INFORMATICS in Africa [10]

SECTION B [60 MARKS]

ANSWER 3 QUESTIONS ONLY

QUESTION 5

Explain with the aid of a diagram the data handling process in the information cycle [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.

QUESTION 7

Explain the following subsets of Health Informatics: [20]

- 1. Medical informatics (MI)
- 2. Public Health informatics
- 3. Consumer health informatics
- 4. Nursing informatics (NI)
- 5. Dental Informatics
- 6. Clinical Informatics

- 7. Pharmacy Informatics
- 8. Biomedical informatics
- 9. Translational bioinformatics
- 10. Computational health informatics (CHI)

QUESTION 8

What are the advantages and disadvantages of paper based and electronic medical record systems [20]