(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

MAIN EXAM

2021/2022 ACADEMIC YEAR

COURSE CODE: NCE 8221

COURSE TITLE: Information and Communication Technology in Nursing Education

DATE:- 26ᵗʰ April, 2022   **TIME: 8.00- 11.00 A.M**

INSTRUCTIONS TO CANDIDATES:
  ANSWER QUESTION ONE and ANY other TWO
TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

Paper Consists of 3 Printed Pages. Please Turn Over

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QUESTION ONE 20 MARKS [COMPULSORY]

a. Tasked with the role of leading adoption and implementation of HIS in a given healthcare facility, briefly outline your key strategy to successfully achieve your role.   **6 Marks**

b. How has nursing informatics aided service delivery during this period of Corona Pandemic?
6 Marks

c. Identify and briefly discuss any 3 of the emerging patterns and trends in electronic information processing in nursing education.   **8 Marks**

QUESTION TWO 20 MARKS

a. Anderson (1997) is of the view that the efforts to introduce clinical information systems into practice settings results in failures and unanticipated consequences if their technical aspects are emphasized and their social and organizational factors are overlooked. Discuss. **7 Marks**

b. Discuss how nursing informatics fits the jig of both nursing in healthcare and nursing education.   **6 Marks**

c. Discuss how the complexity of health systems is both a barrier and a drive towards the implementation and integration of information and communication technologies, into healthcare setup.   **7 Marks**

QUESTION THREE 20 MARKS

a. Identify and briefly explain the key elements of Information systems in healthcare service delivery.   **7 Marks**

b. Identify key elements necessary in the selection, use, analysis, and evaluation of healthcare information systems and patient care technology.   **6 Marks**

c. Researchers, are of the view that health information systems in the developing countries, are characterized by fragmentation and lack of coordination, prevalence of manual systems and lack of automation, and where automation exists they are more of silo (model) systems. Discuss   **7 Marks**

QUESTION FOUR 20 MARKS

a. Discuss some of the ethical/legal issues that arise in the implementation of technology with a specific reference to either nursing or education.   **6 Marks**

b. Discuss health informatics as is applied in nursing in general and again specific to nursing education   **8 Marks**

c. Discuss on how informatics knowledge and competencies can enable nursing to instantiate transition to integrated models of care.   **6 Marks**

QUESTION FIVE 20 MARKS

a. The technology acceptance Model (TAM) came into existence in 1985, proposed by Davis. Discuss the implication of this model and the interactions of its constructs on the implementation of information and communication technologies into nursing education.
8 Marks

b. As a nursing instructor in a class setup, explain the importance of each of the following applications: PowerPoint, Excel and Word to your students. **6 Marks**

c. Briefly discuss the key challenges in implementing ICT for use in nursing education. **6 Marks**