



**AMREF INTERNATIONAL UNIVERSITY**  
**SCHOOL OF MEDICAL SCIENCES**  
**DEPARTMENT OF NURSING AND MIDWIFERY SCIENCES**  
**BACHELOR OF SCIENCE IN NURSING**  
**END OF SEMESTER EXAMINATION AUGUST 2023**

**COURSE CODE AND TITLE: AIU113 INFORMATION AND COMMUNICATION TECHNOLOGY**

**DATE: 4<sup>TH</sup> AUGUST 2023**

**START: 2:00 P.M**

**FINISH: 4:00 P.M.**

**TIME**

**Start:**

**Finish**

**INSTRUCTIONS**

1. This exam is marked out of 70 marks
2. This Examination comprises TWO Sections  
**Section I:** Compulsory Question (30 marks)  
**Section II:** Long Answer Questions (70 marks)

**SECTION I: SHORT ANSWER QUESTIONS (COMPULSORY)****(30 Marks)**

1. a. Using examples, define the following terms **(8 Marks)**
- I. Network
  - II. Intranet
  - III. Extranet
  - IV. LAN
  - V. WAN
  - VI. MAN
  - VII. Protocol
  - VIII. Topology
- b. Computer system is composed of several components each of which performs specific function. Discuss the key functions of a computer listing the components that performs that function. **(12 Marks)**
- c. There are various considerations before selecting application software for business, organization or individual use. State and explain factors to consider when buying any application software for use in a health facility **(10 Marks)**

**SECTION II: LONG ANSWER QUESTIONS (ANSWER ANY TWO)****(40 Marks)**

2. a. During the process of data transmission, the data or information flow in any of the THREE major ways. Using simple diagrams illustrate the three ways of data communications. **(10 Marks)**
- b. Briefly discuss the FIVE (5) components that must come together in order to produce an information system. **(10 Marks)**
3. a. Discuss the emerging/contemporary issues with the use of ICT by businesses, organizations and individuals **(10 Marks)**
- b. Computers have moved into many facets of our lives. There is virtually no area of human endeavor that computer usage has not penetrated. Explain Five areas where computer is applied in the modern information society **(10 marks)**
4. a. Discuss the positive and negative impact of ICT use in the modern society **(10 Marks)**
- b. Describe and explain any 5 functions of operating system in a computer **(10 Marks)**