



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

**COURSE TITLE AND CODE: AIU 113: INFORMATION AND COMMUNICATION TECHNOLOGY**

**DATE: 6 –DECEMBER- 2023**

**TIME: 2 HOURS**

**Start: 4.15 PM**

**Finish 6.15 PM**

**INSTRUCTIONS**

1. This exam is marked out of 70 marks
2. This Examination comprises TWO Sections  
**Section A:** Compulsory Question (30 Marks)  
**Section B:** Long Answer Questions (40 Marks)
3. The question on Section A is compulsory. Answer any TWO questions in Section B
4. This online exam shall take 2 Hours

**SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)**

1. Using examples, define each of the following terms: - **(4 Marks)**
- i. Internet
  - ii. RAM
  - iii. Virus
  - iv. Topology
2. Differentiate between the following computing terms: - **(4 Marks)**
- i. Volatile and Non Volatile Memory
  - ii. Topology and Protocol
  - iii. Primary and Secondary Memory
  - iv. CPU and System Unit
3. Specify TWO functions of the control unit:- **(2 Marks)**
4. List TWO advantages of Machine language over the High Level Language: - **(2 Marks)**
5. What are the THREE main components of a computer system? **(3 marks)**
6. Using relevant examples, explain how computers work **(5 Marks)**
7. The fight against viruses involves the application of FIVE countermeasures. Briefly state these measures **(5 Marks)**
8. Explain any FIVE positive impacts of ICT (Information Communication and Technology) use in a health facility in the 21<sup>st</sup> century **(5 Marks)**

**SECTION B: LONG ANSWER QUESTIONS ANSWER ANY TWO (2) QUESTIONS (40 MARKS)**

**Question 9**

- a. Using relevant examples, discuss the THREE basic categories of computer networks **(12 Marks)**
- b. Since we live in the information society, everyone is expected to be ICT literate. Discuss what ICT literacy entails. **(8 Marks)**

**Question 10**

- a) Define Data Communication and explain the components that must be present for effective data communication **(10 Marks)**
- b) There are several factors hindering widespread of ICT in Kenya. Discuss **(10 marks)**

**Question 11**

a) There are various considerations before selecting application software for business or individual use.

Explain FIVE factors to consider when buying any application software for use in a health facility.

**(10 Marks)**

b) i. Define the term software suite

**(2 Marks)**

ii. What are the FOUR main benefits of a software suite

**(8 Marks)**

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