



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2017/2018 ACADEMIC YEAR**

**SCHOOL OF SCIENCE AND INFORMATION SCIENCES  
DEPARTMENT OF COMPUTING AND INFORMATION  
SCIENCES**

**SECOND YEAR SECOND SEMESTER EXAMINATION  
FOR DEGREE IN BSC. IN STATISTICS**

**COURSE CODE: COM 1104**

**COURSE TITLE: INTRODUCTION TO COMPUTER  
APPLICATIONS AND NUMERICAL ANALYSIS**

## **INSTRUCTION TO CANDIDATE**

- i. Question ONE in section A is compulsory
- ii. Answer any OTHER Two (2) Questions from section B
- iii. Use diagrams, example and illustration where necessary
- iv. All questions in section B have equal marks

## **SECTION A: COMPULSORY [30 MARKS]**

### **QUESTION ONE**

- i. Define the term computer. **[2 Marks]**
- ii. Define the term computer network. **[2 marks]**
- iii. State and explain four main functions of a computer **[ 4 marks]**
- iv. Define the terms as used in computer programming **[8 Marks]**
  - a) Program
  - b) Programming
  - c) Software
  - d) Pseudo code
  
- v. State and Explain four control characters **[4 Marks]**
- vi. Distinguish between compiler and interpreter **[4 Marks]**
- vii. Define term “application software” **[2 Marks]**

## **SECTION B ANSWER ANY TWO QUESTION [40 MARKS]**

### **QUESTION TWO [20 MARKS]**

- i. Write the general C++ syntax and analyze every line of code **[5 Marks]**
- ii. Write a simple program that outputs “I like programming in C++”. **[5 Marks]**
- iii. Write a C++ program that accept Four numbers and output their sum, Average and mean. **[10 Marks]**

### **QUESTION THREE [20 MARKS]**

- i. Explain three types of wired based media used in computer networks. **[6 marks]**
- ii. Discuss Two types of wireless media used to create a network **[4 marks]**
- iii. Define the term “Communication channel” **[2 Marks]**

### **QUESTION THREE [20 MARKS]**

- i. Write a C++ that accept five data type of integer and display standard deviation. **[5 Marks]**
- ii. Write a C++ that search data in an Excel file, find the mean and standard deviation of the data. **[15 Marks]**

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