**COMPUTER SCIENCE**

**30/06/2021**

**8:30 am - 11:30am**

 

**SENIOR FOUR END OF YEAR EXAMINATIONS, 2020/2021**

**SUBJECT: COMPUTER SCIENCE**

**COMBINATIONS:**

**MATHEMATICS- PHYSICS- COMPUTER SCIENCE (MPC)**

**MATHEMATICS-COMPUTER SCIENCE –ECONOMICS (MCE)**

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|  **/100** **Marks:** |

**DURATION: 3 HOURS**

**INSTRUCTIONS:**

All questions are compulsory (**100 marks**)

**Answer all questions (100 marks)**

*1)*Explain why it is not advisable to eat or drink in a computer lab. **(3marks)**

*2)*Discuss Characteristics of Random Access Memory (RAM) **(6 marks)**

1. Differentiate between the Servers and workstations. **(4 marks)**
2. Which of the following is designed to control the operations of a computer? Explain it. **(5 marks)**

a) Application Software
b) System Software
c) Utility Software
d) User

1. State four factors you would consider before installing computer software whether an operating system or application software. **(4 marks)**
2. Convert 101102 into a decimal number. **(4 marks)**
3. Why the truth table of an AND gate has four possible combinations?

 **(3 marks)**

1. List six functions of the operating system. **(6 marks)**
2. Write a C++ program to assign a value of 100.235 to a double variable and then convert it to int. **(6 marks)**

10) List five rules you would follow to write code using XHTML **(5 marks)**

11) Draw the truth table of AND Gates **(4 marks)**

1. Write a C++ program to print the value of the address of the pointer to a

 variable whose value is input from user. **(10 marks)**

1. List 10 components inside computer case. **(10 marks)**
2. Write an algorithm which receive a width and height of a rectangle and

 display its area and perimeter **(10 marks)**

 15) Explain major types of computer software, their uses, and examples.

 **(10 marks)**

 16) Write pseudocode to compare three numbers X, Y and Z in algorithm.

 **(10 marks)**