**COMPUTER SCIENCE**

 **30/06/2021**

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

 

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

**SUBJECT: COMPUTER SCIENCE**

**COMBINATIONS:**

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

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

**DURATION: 3 HOURS**

**INSTRUCTIONS:**

**ANSWER ALL QUESTIONS (100 MARKS)**

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1. List any five internal components of a laptop **(5 marks)**
2. Give a clear difference between VGA and HDMI connectors. **(4 marks)**

1. Define two dimensional array and give their syntax for declaring it **(6 marks)**
2. Discuss the purpose of switching table in the switch? **(4 marks)**
3. Describer the 2 function of a modem **(4 marks)**
4. What is the purpose of managing information? **(4 marks)**
5. Explain three database design levels **(6 marks)**

1. By using a sketch, give types of Multiple Inheritance (4 marks)

1. What the following controls prefix stand for? Chk, fil,cbo,frm,txt. **(5 marks)**

1. What SQL command can be used to delete columns from a table?

 **(3 marks)**

A MODIFY TABLE TableName DROP COLUMN ColumnName

B MODIFY TABLE TableName DROP ColumnName

C ALTER TABLE TableName DROP COLUMN ColumnName

D ALTER TABLE TableName DROP ColumnName

1. Rewrite the following code using while loop: **(5 marks)**

1. Differentiate queue and stack and state their operations **(10 marks)**

1. Write an algorithm to solve quadratic equation. **(10 marks)**

1. Discuss advantages and disadvantage of using computer network

 **(10 marks)**

1. Write a java program that allows user to enter 2 inputs through the

 keyboard and calculate the sum, average and difference, use scanner

 **(10 marks)**

1. Write a vb program using do while…loop to display number from

 0 to 100 **(10 marks)**