**TERM 3 END YEAR EXAM - 2022**

**COMPUTER STUDIES 451/1**

***Kenya Certificate of Secondary Education (KCSE)***

**FORM ONE PAPER I**

**NOVEMBER 2022**

**TIME 2 Hrs.**

**NAME……………………………………………………ADM NO……………………………**

**SCHOOL:…………………..SIGN: ………………………. DATE:…**

**Instructions to Candidates**

* Write your Name and Index number in spaces provided above.
* This paper consists of **TWO** sections.
* Answer **ALL** questions in section **A**.
* Answer Question 16 and any other **THREE** Questions from Section **B**
* All answers MUST be written in the spaces provided on this question paper.

For Examiner’s Use Only

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| --- | --- | --- |
| **Questions** | **Maximum Score** | **Actual Score** |
| **1-15** | **40** |  |
| **16** | **15** |  |
| **17** | **15** |  |
| **18** | **15** |  |
| **19** | **15** |  |
| **20** | **15** |  |
| **TOTAL** | |  |

**SECTION A: 40 MARKS**

**Answer all the questions in this Section.**

1. State the hardware technological difference between the second generation and the third-generation computers **(2marks)**

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1. State two ways of ensuring proper ventilation in a computer room**(2marks)**

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1. Mention three input devices that capture data through scanning (**3marks)**

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1. Describe three factors to consider before purchasing a computer memory module for upgrade (**3marks)**

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1. State the SI unit for measuring computer speed, memory, and the monitor size (**3marks)**

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1. Differentiate between POST and BIOS (**2marks)**

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1. Briefly describe any two logical operations that can be performed by the Logical wing of the ALU **(2marks)**

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1. Explain the following features of secondary storage devices.
2. Mass storage (**1mark)**

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1. Content cannot be accessed directly (**1mark)**

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1. Explain the term toggle key as used in computer keyboard **(2marks)**

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1. List examples of toggle keys on a computer keyboard (**2marks)**

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1. Identify the printers that can be used to perform the following tasks.
2. Printing receipts and invoices **(1mark)**

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1. Printing Maps and charts **(1mark)**

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1. State four factors to consider when selecting an input device for use in a computer room **(4marks)**

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1. State three functions of uninterruptible power supply **(3marks)**

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1. James bought a flash disk which has a capacity of 2GB. Calculate the numbers of bytes that this flash can hold **(3marks)**

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1. State three factors to consider when selecting an operating system to install in a computer **(3marks)**

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1. Differentiate between analogue data and digital data as used in computer **(2marks)**

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**SECTION B: 60 MARKS**

**ANSWER QUESTION NUMBER 16 ANY OTHER THREE QUESTIONS FROM THIS SECTION**

1. Define the following terms.
2. Deadlock **(1mark)**

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1. Interrupt**(1mark)**

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1. Kernel **(1mark)**

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1. A student saved his practical work in a computer during the lesson. At the end of the lesson, he was requested by the teacher to delete the file unfortunately the student forgot the file name. Mention three attributes that this student may use to locate this file in order to delete it from the computer **(3marks)**

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1. Describe four ways employed by the operating system to protect its data and programs **(4marks)**

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1. Mention three functions of the recycle bin **(3marks)**

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1. Explain why a control panel is usually referred to as a Toolbox **(2marks)**

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1. Give two functions of the Power supply unit **(2marks)**

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1. Describe two ways of discharging static electricity that might have built up on the hands during basic computer setup and cabling **(2marks)**

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1. Mention four reasons to justify why solid-state storage devices are gaining popularity in modern computing **(4marks)**

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1. Give a reason in each case to justify why the following rules must be observed when handling magnetic storage media.
2. Do not expose a magnetic media to strong magnetic field **(2marks)**

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1. Avoid exposing a magnetic media to excessive heat **(2marks)**

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1. List three interfaces that can be used to link a printer and a computer **(3marks)**

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2. Describe five functions of an operating system **(5marks)**

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1. State three advantages of command line operating system **(3marks)**

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1. List two items used to measure software Authenticity **(2marks)**

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1. Distinguish between Multitasking operating system and multiuser operating system **(2marks)**

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1. During a computer lesson a student switched on the computer but the computer failed to display the active GUI window instead it displayed an error message **Corrupted System Registry.**  Mention three ways of solving this error **(3marks)**

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1. What is hot swapping **(2marks)**

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1. Identify the type of peripheral interfacing cables shown in the table below (**3marks)**

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1. State the difference between COM port and LPT port **(2marks)**

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1. Mention devices that can be connected to the computer by the following cables (**3marks)**
2. VGA

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1. SCIS

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1. PS/2

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1. Explain master slave configuration as used in hard disk setup and configuration **(2marks)**

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1. Kim connected new multimedia speaker to his computer and tried to play his favorite music from a memory card, but no sound was heard. Give three main causes of this problem (**3marks)**

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1. Describe three items that a good warranty must cover (**3mark)**

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1. Describe the following term as used computer software.
2. Vendor off-the shelf software **(1mark)**

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1. Freeware **(1mark)**

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1. Open-source software (**1mark)**

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1. King James bought two computers for his office use the first computer was valued @34000 while the second one was valued @50000. Suggest three reasons that might have made the second computer to be more expensive (**3marks)**

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1. Explain the following factors must be considered when purchasing a computer software.
2. Reliability

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1. Portability

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1. Compatibility

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1. User friendliness

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1. Mention three features that a computer must have to support multimedia capability fully (**3marks)**

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