Name:………………………………………………………….Class:……..Adm No:…….

**FORM 3 COMPUTER STUDIES**

**END OF TERM 1 EXAMINATION (451/1)**

**TIME: 2HOURS**

1. a) Distinguish between a **computer drive** and **computer driver**. (2marks)

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b) Define the term **peripheral devices**. (2marks)

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c) Apart from keyboard and mouse, give **five** devices connected to the system unit. (5marks)

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d) State **two peripheral** devices connected to the computer via PS2. (2marks)

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e) Jane encountered desktop computer with the following features

* *3.0 USB ports*
* *4.0 GB primary storage*
* *19” TFT VDU*
* *500 SATA HDD*
* *Linux 7.1*
* *AVG antivirus*
1. Give **three** reasons for wide use of USB gadgets in the society today. (3marks )

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1. What is the meaning of the following specifications: (4marks)

*- 4.0 GB primary storage*

*-19” TFT VDU*

*- 500 SATA HDD*

*-Linux 7.1*

2) i) Give **six factors** to consider when selecting an **OS** to install in your computer. (6marks)

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ii) State **three** advantages of using command-line based operating system when working with a computer. (3marks)

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3. Describe **three symptoms** of a computer infected by virus. (3marks)

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4. i) Define the term **utility** **software**. (2marks)

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ii) Give **four** examples of utility software. (4marks)

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5. State **four** properties that an operating system displays about a file. (4marks)

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6. a) Define a **microcomputer**. (2marks)

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b) State **five** reasons for the increased use of microcomputers in government offices. (5marks)

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7. State **four** facilities that will ensure proper ventilation in a computer laboratory. (4marks)

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8. State **three** advantages of Optical Character readers or recognition as a method of input. (3marks]

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9. a. Give four benefits of computerizing the organization filling system. **(**4marks**)**

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b. Briefly describe two features of the Random file organization method. **(**2marks**)**

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10. State **three** advantages of Liquid crystal display (LCD) monitors over cathode ray tube monitors as used in computers. (3marks)

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11 Convert the following numbers

1. 7.562510 to Binary **(**3marks**)**

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ii. DDFF3416 to Binary **(**2marks**)**

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iii. Use twos complement solve 2010 -1510 **(**4marks**)**

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12. List down any **four** hardware components you can add or upgrade in a computer system. (4marks)

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13. Briefly explain the following terms: (5marks)

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ii) Use the sample worksheet provided to answer the questions below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | A  | B  | C  | D  | E  | F  |
| 1 | Items  | Jan | Feb  | Mar  | April  | Total  |
| 2 | Fees  | 400 | 460 | 400 | 400 |  |
| 3 | Food | 300 | 350 | 305 | 270 |  |
| 4 | Electricity  | 100 | 100 | 100 | 100 |  |
| 5 | Fuel  | 150 | 150 | 150 | 150 |  |
| 6 | Transport  | 380 | 270 | 150 | 300 |  |
| 7 | Total  |  |  |  |  |  |

a) Write down the **data type** that is stored in cell C5. (1mark)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) What cell contains the data item representing transport for the month of February? (1mark)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Write down the formula that may be used to compute the total in cell F6. (2marks)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) Name any **two** types of **graphs** that may be supported by spreadsheets. (1mark)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. a) Describe **three** comparisons of traditional method of typing a document on a typewriter against using a word processor. (6marks)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) List **two** arithmetic operations that can be performed on a row of numeric data in a word processing table. (2marks)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Explain the following terms as used in word processing. (3marks)

*Indenting*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Alignment*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Word wrap*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) List four text formatting features of a word processor. (4marks)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_