| Form 4 | Term 2 | 451 - Computer Studies | 22-Mei-16 | Weekly Ambush |

ADM…………. NAME ……………………………………………………………… CLASS ……..

1. State one function for each of the following elements of a computer system: **(2014 #1)**

   a. hardware: (I mark)

   ………..

   b. software: (I mark)

   ………..

   c. liveware: (I mark)

   ………..

2. Explain **two** health issues that could arise from the use of an unsuitable computer desk. **(2014#2)**

                                                                               (4 marks)

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   ………

3. Write each of the following acronyms in full as used in computing. **(2013#1)**   (2 marks)

   a. CAD ……….

   b. DVD ……….

   c. WORM ……..

   d. POS ……..

4. State three risks posed by improper cabling in a computer laboratory.   **(2013#4)**   (3 marks)

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   ………

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5. State two functions of the Control unit of a computer.   **(2012#1)**   (2 marks)
   ………

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6. (a) Differentiate between hardware and software portability.   **(2012#2)**   (2 marks)

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    (b) State **two** disadvantages of CD-ROM over magnetic disks.   (2 marks)

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    …….

7. One way in which an organization enforces security of its computer systems is by restricting the use of removable media such as floppy disks and flash memories. Give **two** reasons for this. **(2012#3)**

                                                                                                    (2 marks)

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8. When purchasing a computer, the clock speed, RAM size, Hard disk size and monitor size are often

    quoted. State the unit for measuring: **(2012#5)**   (2 marks)

        a. Clock speed; …………………………………………………………………………………………………

        b. RAM size; …………………………………………………………………………………………………….

        c. Hard disk size; …………………………………………………………………………………………..

        d. Monitor size; ……………………………………………………………………………………………….

9. A student saved a document in a diskette. Later on, the student found that the diskette could not

    open and therefore the work got lost. Give **three** precautions the student should have taken to ensure

    the work was not lost.   **(2012#7)**   (3 marks)

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    ………

10. A computer is idle but the hard disk light is blinking, indicating some activity. State two possible causes

    of this.   **(2013#13)**   (2 marks)

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Marking Scheme

1.	**Function of:-**	
	(a) Hardware: To perform tasks of inputting, storage, outputting, processing during data processing and communication.	1
	(b) Software: - Instructs the hardware/computer on what to do during data processing. - Provides interface between hardware and liveware. - Accept functions of software based category ie. system / application/working/uses.	1 1
	(c) Liveware: Meant to design or operate a computer.	
2.	**Problems arising from use of unsuitable computer desk.** √ It could lead to back problems if the desk is of an unrealistic height. √ If it does not provide good positioning of the monitor, it could result in eye strain. √ Wrist problems will arise if the keyboard and mouse seating positions are bad. √ Injury as a result of falling computer components due to weak computer desks/ small size. (First 2 x 2)	 4

3.   (a) CAD - Computer aided design.
           (b) DVD - Digital video disk) digital versatile disk
           (c) WORM - Write once read many.
           (d) POS - Point of sale/point of sale terminal.

4.   - Risk of electric shocks to the users.
           - Risk of fire outbreaks in the laboratory.
           - Risk of tripping and injuries.
           - Power interruption caused by stumbling on the cables.

5.   - To direct the operations of the internal processor components.
           - To control the flow of programs and data in and out of main memory.
           - To read and interpret program instructions.
           - To control flow of information to and from all the components of the computer.
           - To control flow of information/data
           - To determine next instruction to be executed first.
           - To fetch instructions from devices.
           - To direct/give/monitor operations of internal processing.
           - To send control signals to peripherals.

6. (a)   - Hardware portability refers to the ease of moving hardware from one location to another while
           - Software portability refers to the ability of running software on different platforms /models/ hardware/ computers.

   (b)   Disadvantages of CD ROM over magnetic disks
           - Fairly fragile - easy to break or scratch than magnetic disks.
           - Smaller storage capacity than a hard disk.
           - CD ROM has a slower data access time compared to magnetic disks.
           - Takes time to save/write data than magnetic disk.
           - CD ROM not re-writable

7   - To minimize/control spread of viruses.
           - To control access to data/programs.
           - To control movement of data.
           - To control unauthorized access to data/information.

8. Units
   (a) Clock speed - hertz, gigahertz, and megahertz
   (b) RAM size - bytes
   (c) HD size - bytes/bits
   (d) Monitor size - inches or "pixels

9. - Should have kept a back-up.
   - Store the diskette safely e.g. in a disk bank.
   - Use more reliable storage media.
   - Regular scanning.
   - Avoid ejecting disk while in use.

10. Possible causes of Hard disk blinking.
   - Virus executing itself.
   - Updating of some software applications.
   - Network access taking place.