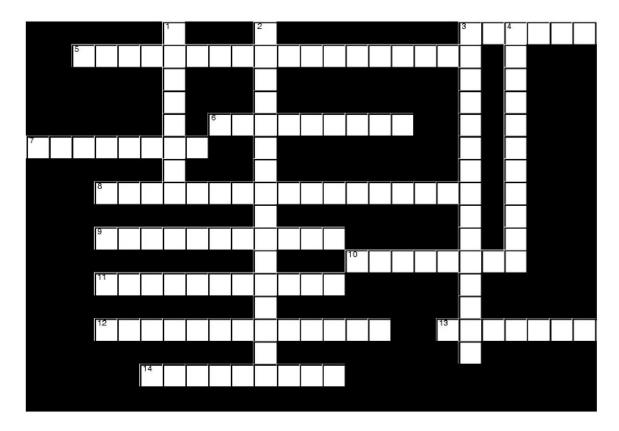
INSTRUCTIONS: Answer Question 1 and any other 2 questions	
QUESTION ONE	
1. Fill up the following crossword:	[14 Marks]



Across

- 3. Computer program allowing the computer to communicate with a hardware device
- 5. Cable inside the computer transferring data between the mother board and storage devices
- 6. The frequency that determines how fast the CPU is able to process instructions
- 7. Computer pointing device which takes advantage of a tactile sensor to detect a user's finger movement
- 8. Removable hard drive located outside of the main computer tower
- 9. Main circuit board inside personal computers which holds the majority of computer components
- 10. Set of computer programs designed to give instructions to the computer
- 11. Computer hardware converting AC to DC for computer components
- 12. Cable connecting the computer to the Internet
- 13. Output device which displays graphics and images from the computer
- 14. Main storage device of a computer; commonly referred as an internal device and used to permanently store data

Down

- 1. Physical components of a computer
- 2. Computer designed for general use by a single person
- 3. Software maintenance process which reduces the amount of fragmentation between files
- 4. Any piece of computer hardware used to provide data to the computer
- 2. Indicate TRUE or FALSE against the following statements

- a. By default, the ribbon is automatically visible in Word 2010
- b. Second to Microsoft Word, Microsoft publisher is the most commonly used software application
- c. When installed, Word is not ready to be used until it is fully customized by the user.
- d. A page number is a simple header or footer.
- e. RAM is the secondary storage of a computer
- f. Application software are programs on the computer that allow the user to perform a user-specific task
- g. Hardware are the intangible components of the computer
- h. The operating system and utility software are system software
- 3. Using a well labeled diagram, show the 5 basic components of a computer system and how these components interact amongst themselves by indicating the flows between the components. [8 Marks]

TOTAL [30 Marks]

QUESTION TWO

1. Perform the following number conversions (Show your working) [12 Marks]

a. $4D_{16} = (?)_{10}$

b. $323_8 = (?)_{10}$ and $(?)_2$

c. $202_{10} = (?)_{16}$

 $d.10010011_2 = (?)_{10}$ and $(?)_{16}$

e. $E801_{16} = (?)_2$ and $(?)_8$

2. Explain the following terms:

[5 Marks]

- a. Internet
- b. WWW
- c. URL
- d. IP Address
- e. Web Browser
- 3. List ANY THREE components that you would find on the motherboard and outline the functions of each. [3 Marks]

TOTAL [20 Marks]

QUESTION THREE

1. Perform the following binary calculations:

[6 Marks]

a. 01111000/110

b. 1011×1010

c. 11000011 + 101111

d. 1101110 - 10111

2.	2. You have just input the instruction 52×2 using the computer keyboard on the calculator. Clearly explain how instruction is processed to the point that you can see		
	the output on the screen	[6 Marks]	
3.	 Differentiate between the following terms a. Bit and byte b. Application software and system software c. RAM and ROM d. Primary and Secondary Storage Device 	[8 Marks]	
ТО	OTAL	[20 marks]	
QU 1.	Cloud storage is one of the ways to secure data in this generation. a. Give any two examples of cloud storage	[2 Marks]	
	b. Explain any FOUR advantages and TWO disadvantages of cloud	storage [8 Marks]	
2.	Computer security is an important aspect in any organization, especial information age. a. What is a computer security risk?		
	b. Explain any three mitigations against computers security risk	[3 Marks]	
3.	Briefly explain these concerns in the use of the Internet: a. Spamb. Adwarec. Social Engineering	[6 Marks]	
ТО)TAL	[20 marks]	
QUESTION FIVE			
1.	Differentiate between the following a. First Line indents and Hanging indent b. Footnotes and endnotes c. Sleep mode and hibernate d. Reading and Writing	[8 Marks]	
2.	Computer communication is an important aspect in information technology. Computers commonly communicate through a computer network. An following questions: a. What is a network? b. Explain any three benefits of a network c. What is a topology?		

d. With the aid of diagrams, illustrate ANY TWO commonly use topologies and state at least one advantage and one disadvantage of each [6 Marks]

TOTAL [20 marks]