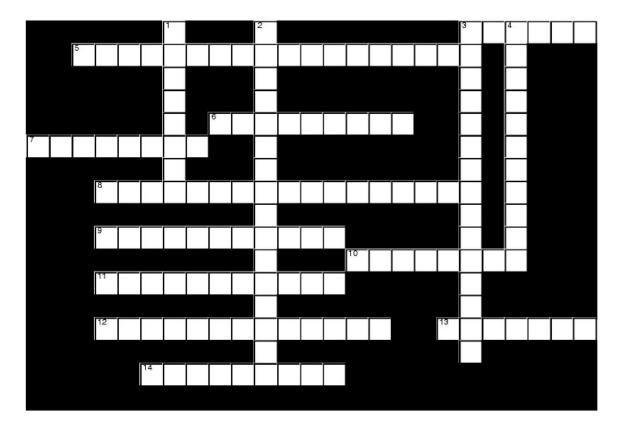
INSTRUCTIONS: Answer Question 1 and any other 2 questions

QUESTION ONE

1. Fill up the following crossword:

[14 Marks]



Across

Computer program allowing the computer to communicate with a hardware device
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 [8 Marks]

- 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
- 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.10010011₂ = (?)₁₀ and (?)₁₆
 - e. $E801_{16} = (?)_2$ and $(?)_8$

2. Explain the following terms:

- 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]
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[5 Marks]

QUESTION THREE

1.	Per	Perform the following binary calculations:		
	a.	01111000/110	b. 1011 × 1010	
	C	11000011 + 101111	d. 1101110 – 10111	
	υ.	11000011 101111		

2. You have just input the instruction 52×2 using the computer key	You have just input the instruction 52×2 using the computer keyboard on the			
calculator. Clearly explain how instruction is processed to the poi	nt that you can see			
the output on the screen	[6 Marks]			
3. Differentiate between the following terms	[8 Marks]			
a. Bit and byte				
b. Application software and system softwarec. RAM and ROM				
d. Primary and Secondary Storage Device				
TOTAL	[20 marks]			
QUESTION FOUR				
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 clo	oud storage			
	[8 Marks]			
Computer security is an important aspect in any organization, especially in this				
information age. a. What is a computer security risk?	[1 Mark]			
b. Explain any three mitigations against computers security risk	[3 Marks]			
3. Briefly explain these concerns in the use of the Internet:	[6 Marks]			
a. Spam				
b. Adwarec. Social Engineering				
TOTAL	[20 marks]			
QUESTION FIVE				
1. Differentiate between the following	[8 Marks]			
a. First Line indents and Hanging indent				
b. Footnotes and endnotes				
c. Sleep mode and hibernated. Reading and Writing				
2. Computer communication is an important aspect in information to Computers commonly communicate through a computer network				
following questions:				
a. What is a network? b. Explain any three benefits of a network	[2 Marks]			
b. Explain any three benefits of a networkc. What is a topology?	[3 Marks] [1 Marks]			
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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]

[20 marks]