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SUMMARY QUIZ <sub>10</sub>

vww.tongatapu.net.to	MARY C	) <b>.</b>	X3091	Name:	
X3091	MIVIANT	<b>X</b> 012 <sub>10</sub>			
Section I		Section II			
Definitions	24	Hardware	8	Section I	
Environment	16	Binary / ASCII	30	Section II	
Operating System	10	Acronyms	12	Total	
Sub-Total	50	Sub-Total	50	Percentage	
1 Below is an inco the following dia	FINITIONS  Below is an incomplete diagram used in defining "What is a computer." Label each element in the following diagram, and connect arrows where appropriate.  1				
3 Give at least two	o examples of	devices for each of the	"boxes" showr	n above. Name the "box"	(2 + 2 + 2

3	Give at least two examples of devices for each of the "boxes" shown above. Name the "box"	(2 + 2 + 2)
	your are referring to.	+ 2 marks)

3

2 4

## **ENVIRONMENT**

Describe the problem that can occur to computers by the environmental problem of "Humidity," and what is one solution to this problem? (2 + 2 marks)

5.	What is a power surge and what problem can this cause to your computer. Provide one solution to minimise the effects of a power surge to your computer.	(2 + 2 + 2 marks)
6.	What is a power spike and what is a common cause of a power spike. Provide one solution to minimise the effects of a power spike to your computer.	(2 + 2 + 2 marks)
O	PERATING SYSTEM	
7.	The Operating System manages a number of different activities of the computer. List at least four major functions that are the responsibility of the Operating System	(1 + 1 + 1 + 1 marks)
1	3.	
	2. 4.	
8.	Provide a description for two functions of an Operating System as listed above.	(2 + 2 marks)
1.	2.	
9.	Describe one difference between a Disk based Operating System and a chip-based Operating System	(2 marks)
<b>H</b> / <sub>2</sub> 10	ARDWARE  Describe one technology, material, difference between RAM and Disk Storage?  (if you cannot understand this question, list all the differences that you know)	(1 mark)
11	What effect does the technical difference between RAM and Disk Storage have on the speed, storage, and cost ? (Hint: Describe whether RAM or Disk Storage is faster/slower etc.)	(1 + 1 + 1 mark)
1	Sneed 2 Storage	
3	Cost	

When turning on and off a computer, we should go through the computer's "shutdown (2 marks) process". Describe why we should use the "shutdown process." Describe the steps you would use to change the time shown on your computer. (2 marks) **BINARY AND ASCII** 14. Translate the following Binary numbers, to their Decimal equivalent (5 marks) **Binary Decimal** 100 1110 1101 0000 10 1010 1 0001 0100 100 1001 Table ASCII representation of capital letters **BYTE BYTE** 

A		N	100 1110	Given the following incomplete table, convert the ASCII
В	100 0010	0		binary to ASCII text, and ASCII text to ASCII binary listed below.
С	100 0011	Р	101 0000	below.
D	100 0100	Q	101 0001	
Е		R	101 0010	
F	100 0110	S	101 0011	
G	100 0111	T	101 0100	
Н		U		
I		V	101 0110	
J	100 1010	W	101 0111	
K	100 1011	Χ	101 1000	
L		Υ		
M	100 1101	Z	101 1010	
15.	Convert the fo	llowing ASC	II text to ASCII	binary (15 marks)

15.	Convert the following ASCII text to ASCII binary	(15 marks)	
Н	Т	W	
Е	0	Н	
L	D	1	
L	Α	L	
0	Υ	Е	

16. Convert the followin	(10 marks)	
100 0110	101 0100	
101 0010	100 1111	
100 1001	100 0100	
100 0100	100 0001	
100 0001	101 1001	

## **ACRONYMS AND PHRASES:**

1 Define the meaning of the following acronyms and phrases commonly found in the Computer (12 marks) Industry:

Acronym	Extended Meaning	Acronym	Extended Meaning
WIMP		CRT	
ASCII		RAM	
Bit		FD	
os		HD	
CD		ESC	
ROM		GUI	