The questions on this worksheet have been taken from the Additional OCR GCSE Computing Specimen Paper

6-A-Day – Computer Science GCSE (4)

| Q1 | An advertisement for a personal computer is shown below.

av systems **T-800 DELUXE**

Ultra-fast QUAL processor
4GB RAM
320GB Hard Drive
DP Premier Home Edition
64-Bit operating system
+ PS Anti-Virus
CCS Graphix 3.0
WolfWeb High-Speed
Internet

(i) What is software?

....

.... **[1]**

(ii) Give one example of software from the advertisement.

....

.... **[1]** |

| Q2 |) The table below contains a list of hardware devices.

Tick **one** box in each row to show what type of device it is.

The first one has been done for you.

Hardware device	Input	Output	Processing	Storage	Communication
Monitor		✓			
CPU					
Mouse					
DVD-Drive					
Speakers					

[4] |

| Q3 | Mary's computer has an 800MHz CPU and 1GB of RAM.

(a) Describe the purpose of the CPU.

....

....

....

.... **[2]** |

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Q4	
	(b) Mary wants to upgrade this computer so that she can play the latest games.
	Explain two ways by which the computer can be upgraded to improve its performance.
	....
	....
	....
	....
	....
	....
	.... **[4]**

Q5	
	(a) Convert the denary number 106 into an 8 bit binary number.
	....
	....
	....
	.... **[2]**
	(b) Convert the denary number 106 into Hexadecimal.
	....
	....
	....
	.... **[2]**

Q6	
	Peter takes a high resolution picture with a digital camera. The picture is stored in a bitmap file.
	(a) Describe how a picture is stored in a bitmap file.
	....
	....
	....
	....
	....
	.... **[3]**