The questions on this worksheet have been taken from the Original OCR GCSE Computer Science Specimen Paper

6-A-Day – Computer Science GCSE (p1.2-2016)

Q1

Vicky has been on holiday and has taken lots of photos. The memory in her camera is now full and she needs to transfer her photos to an external secondary storage device.

(c) State **four** characteristics of secondary storage devices that Vicky should consider when choosing a device.

....

....

....

....

[4]

Q2

Gareth has a satellite navigation system (Sat Nav) in his car that uses RAM and ROM.

(a) **Fig. 2** lists some characteristics of computer memory. Tick (✓) **one** box in each row to show whether each of the statements is **true** for the RAM or ROM in Gareth's Sat Nav.

Fig. 2

	RAM	ROM
Stores the boot up sequence of the Sat Nav.		
The contents are lost when the Sat Nav is turned off.		
Holds copies of open maps and routes.		

[3]

Q3

(b) Gareth's Sat Nav contains an embedded system. Define what is meant by an 'embedded system'.

....

....

[1]

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Q4	**(c)** Identify **three** devices, other than a Sat Nav, that contain embedded systems. .... **[3]**
Q5	Bill needs to send a document across a network to Ben. Write an algorithm to show how packets are used to send the document, starting from when Bill clicks send (sending), and finishing when Ben reads the document (receiving). .... **[6]**
Q6	The owners of a large bakery have a Local Area Network (LAN) with a star topology. They order their supplies over the Internet. When data is transmitted from the bakery to the supplier, network protocols are used. **(a)** Define what is meant by a 'network protocol'. .... **[1]**