N5 **Computing Homework**

Information Systems Design & Development

Name:

Grade: / 13

Technical Implementation (Storage)

Answer the questions below in the spaces provided.

1.

Diel QuickPro

Processor	2.5GHz
No of cores	2
Memory	4Gb
Hard Disk Drive	1Tb

CD/DVD Drive 24X
Display 17”
Intill Graphics 2500
Audio 24-bit stereo

RJ-45
Microphone port
USB 2.0
Webcam

Toshimo Pro

Processor	2.5GHz
No of cores	4
Memory	4Gb
Solid State Drive	500Gb

CD/DVD Drive 24X
Display 17.5”
Intill Graphics 4000
Audio 24-bit stereo

RJ-45
USB 2.0
HDMI
USB 3.0

a) The two systems above use different types of main backing storage.

i) Describe **two** differences between a hard disk drive and a solid state drive. (2)

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ii) Choose **one** drive and state why it has an advantage over the other. (1)

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b) Both systems have a CD/DVD writer.

i) Which **type** of optical media is suitable to store 3.5Gb of video files and why? (2)

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ii) State **one** limitation of CD-R disks when compared to CD-RW disks. (1)

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1. c) USB is a type of interface connection which has become more popular in recent years. The two latest developments are USB 2.0 with a typical transfer speed of 480Mbps and USB 3.0 with a transfer speed of 5Gbps

i) Describe **two** reasons why interfaces are required to connect peripheral devices to a computer system. (2)

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ii) A USB 3.0 device is plugged into a USB 2.0 port on a desktop computer. How fast can the USB 3.0 device transfer data to the desktop? (1)

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2. John has been a wedding photographer for 10 years and has shops in Edinburgh, Glasgow and Dundee. He saves copies of all the photographs and HD video he takes onto one computer in his Edinburgh office but is running out of space.

a) John has decided to use cloud storage to store his files. He has a choice between a £30 a month contract and a £100 a month contract. Describe **three** differences there may be between these contracts. (3)

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b) John's customers like to have a digital copy of their videos to keep. The average size of a full HD wedding video is 20Gb.

State the best backing storage medium to distribute the files on. (1)

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