

Explain how a magnetic hard disk drive (HDD) operates.

[illegible]

0	2	3
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A student was asked to describe what software and hardware are. They gave the following answer:

‘New hardware can be installed by downloading it from the web or an installation disk whereas software requires someone to physically attach it to the computer.’

Explain **two** mistakes the student has made.

[2 marks]

Turn over for the next question

0	3
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Specifications for two different devices are shown in **Figure 5**.

Discuss the advantages and disadvantages of **Device A** compared to **Device B**.

Your answer should explain the impact each advantage/disadvantage will have on the operation of the device.

You should assume that any aspects of the specifications **not** mentioned in **Figure 5** are the same for both devices.

[12 marks]

Figure 5



Device A	Device B
Quad (4) core 1.6 GHz CPU with 8 MB cache	Dual (2) core 3.9 GHz CPU with 2 MB cache
16 GB RAM	4 GB RAM
2 TB Hard Disk Drive (HDD)	250 GB Solid State Drive (SSD)

[illegible]

[illegible]

[illegible]

0	4	.	1
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Data is increasingly being stored 'in the cloud'.

State **two** advantages of using cloud storage instead of local storage.

[2 marks]

1 _____

2 _____

0	4	.	2
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Many new computers use solid-state storage for secondary storage rather than magnetic storage.

Explain why solid-state storage is **not** fitted to every new computer.

[2 marks]

0	5	.	1
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 Define the term **hardware**.

[1 mark]

0	6	.	1
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 Define the term **software**.

[1 mark]
