0 1	Explain how a magnetic hard disk drive (HDD) operates.	[4 marks

0 2 . 3	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

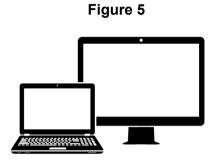
Specifications for two different devices are shown in Figure 5.

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]



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)

0 4 1	Data is increasingly being stored 'in the cloud'.	
	State two advantages of using cloud storage instead of local storage. [2 mark]	ks]
	1	
	2	
0 4.2	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 mark]	ks]

0 5 . 1	Define the term hardware.	[1 mark]

0 6 . 1	Define the term software .	[1 mark]