1. Look at the following advert for a computer system

Dell Inspiron 570, Sempron 140, 4GB, 320GB, Int X4500, Win 7 Desktop



a)	How much memory does this computer come with?	
		[1]
b)	What does the "320GB" mean?	
		[1]
c)	Name 1 piece of software that is included with the computer.	
		[1]

2. Complete the following table, marking which category each of the following devices falls into.

Device	Input	Output	Storage	Processing	Communication
Keyboard					
Touchscreen					
USB stick					
Modem					
CPU					
Scanner					

CE	D-ROM drive and a 40GB hard disc.
a)	Explain the purpose of RAM.
	[3]
b)	Suggest two components Paul could upgrade to make his computer run faster and explain how it will make the computer run quicker:
	i. Component:
	Reason:
	ii. Component:
	Reason:
	[4]
c)	The computer shop recommends that Paul buys a new computer instead, but Paul is concerned about the environmental impact of throwing his old computer away.
	Discuss the advantages and disadvantages of buying a new computer instead of upgrading an old one and advise Paul what he should do. You should focus on the environmental impact and the cost.

3. Paul takes his computer to a local computer shop complaining that it is too slow when playing games. The computer has an 800MHz processor, 512MB of RAM, a

	a)	Explain the purpose of the CPU.	
			[2
	b)	Explain why increasing each of the following will make a computer system faster.	
		i. Clock speed.	
		ii. Cache size.	
		iii. Number of cores.	
_			[3]
5.	a)	Give 2 differences between RAM and ROM.	
		i	
		ii	[2]
	b)	A computer system has an 8MB cache and 2GB of memory.	
		i. Does the computer have more cache or more memory?	
		ii Evalain the nurness of the cache	
		ii. Explain the purpose of the cache	
		iii. Explain what is meant by "Virtual Memory"	

a)	Explain why keeping a backup is important.	
b)	Give 1 example for each of the following storage technologies. i. Optical	[2]
	ii. Magnetic	
	iii. Solid State	
		ГЭТ
c)	Discuss the advantages and disadvantages of the storage technologies above and advise Kevin on what storage method to use for each of his two problems	
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6. Kevin needs to make a backup of his photography portfolio. He also needs to be

able to send copies of his work to potential clients.