

Q	Answer			Mark	Guidance
1a	1 mark for any of the following:			3	
	- Program counter				
	 Memory Address register Memory Data Register 				
	- Current Instruction Register				
	- Accumulator				
1b	1 mark for any of the following:			2	
	-	 Arithmetic Logic Unit Control Unit 			
	-				
	-	- Cache			
2	It conta	ins the address of the next instruction to be e		1	
3		Storage	Type	3	
		RAM Hard Disk	Primary		
			Secondary		
-	1	Virtual Memory	Secondary	2	
4	1 mark for any of the following:			2	
	 The computer can carry out 1 billion fetch, decode and execute cycles per second. 				
5	Eg.				Do not accept cloud storage in this case
5	-	Portable			bo not accept cloud storage in this case
	 CD / BlueRay / DVD → small and light to carry USB Flash Drive → Small in size, durable & light in weight SD Card → Small in size & light in weight Non-portable Magnetic Hard Disk → 3.5 inch disks can be heavy & both 2.5/3.5 inch disks have moving parts that can damage if dropped 				
		power source and an enclosure.)			
6		Considerations for Sarah's laptop may include:			
	- Although the CPU clockspeed is slower				
	it has 4 cores and may deal with simultaneous instructions faster				
	 It has a larger hard drive for storing game files 				

	Considerations for Zainab's PC may include: - It has a faster clock speed - Although it has less cores, some software will not be able to make use of more cores anyway It has more RAM meaning it can store more/larger programs/instructions open without having to resort to using virtual memory.	
7	 1 mark for any of the following: Graphics Card for dedicated processing of graphics instruction away from the CPU Sound card for a dedicated and richer sound experience The type of cooler used by the computer. The more efficiently a computer is cooled, the better and more efficiently it can carry out instructions. Internet connection may be important when playing games online for an experience without lag. 	

