## 3.7. Computer Organisation and Architecture – Test 1

Exp	olain, 	using an example, what is meant by a 'peripheral'.	[2]			
and	motherboard is often referred to as the 'heart' of the computer system. This is because it sends signals d electricity around the computer system to the various components, in a similar way that the heart es with blood in the body.					
a)	Nar	me three hardware components that can be physically connected to a motherboard.	[3]			
	1					
	2					
	3					
b)	Give	e three technological factors to consider when choosing a motherboard for a computer system.	[3]			
	1					
	2					
	3					
a)	Briefly explain the functional role of each of the following.					
a)	i.	CPU				
	ii.	ROM	[1]			
			•••••			
	iii.	RAM	[1]			
			•••••			
b)	What does the ALU (Arithmetic Logic Unit) do?					
			•••••			

	performance of a system.	[3]
		•••••
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		•••••
-	plain the difference between a Von Neumann architecture and a Harvard architecture. For each hitecture give an example of an application the architecture is typically used for.	[3
••••		
••••		
••••		•••••
		•••••
 	me three basic-assembly / machine-code instructions and briefly describe what they are used for.	
	me three basic-assembly / machine-code instructions and briefly describe what they are used for.	[6
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7.	Explain, with reasoning, each step of the Fetch–Execute Cycle in detail.	[10]
	2	
		•••••
	1	•••••
	company has been offered two alternative configurations – one containing a solid-state disk and the other containing a traditional hard disk drive. Give two reasons why a solid-state disk may be chosen over the hard disk drive.	[2]