KASNEB

CICT PART I SECTION 2

COMPUTER SUPPORT AND MAINTENANCE

WEDN	NESDAY	: 24 May 2017.	ime Allowed: 3 nours.			
Answe	r ALL q	questions. Marks allocated to each question are shown at the end of the question.				
QUES (a)	TION O Disting	NE guish between a "Pentium" and a "Celeron" computer microprocessor.	(4 marks)			
(b)	Highli	ght three possible solutions to fix a slow running computer.	(3 marks)			
(c)	Summarise six components found on an advanced technology extended (ATX) motherboard.					
(d)	Use a block diagram to illustrate the connection between the following computer components:					
	•	Bridge. Main memory. Level 2 Cache. System Bus. I/O Busses. Frontside Bus. Backside Bus.	(7 marks) (Total: 20 marks)			
QUES (a)		wo imilar to how certain events call for a computer memory upgrade, your computer's even any memory deficiencies apparent.	eryday performance will			
	Requi Summ	ired: narise six easy-to-recognise signs that your computer might need a memory upgrade.	(6 marks)			
(b)	Troub severa	Troubleshooting a computer system will always be a process of trial and error. In some cases, one might need to use several different approaches before one could find a solution while other problems may be easy to fix.				
	Requ i	ired: use four general steps of troubleshooting a computer.	(8 marks)			
(c)	Distinguish between the following:					
	(i)	Transistors and capacitors.	(2 marks)			
	(ii)	South bridge and north bridge.	(2 marks)			
	(iii)	Main memory and auxiliary memory.	(2 marks) (Total: 20 marks)			
QUESTION THREE (a) Outline three advantages of each of the following types of computer monitor technologies:						
	(i)	Cathode ray tubes.	(3 marks)			
	(ii)	Liquid crystal display (LCD) monitors.	(3 marks)			
(b)	(i)	Define the term "computer maintenance".	(2 marks)			
	(ii)	Highlight four reasons why preventive computer maintenance is important.	(4 marks)			
(c)	Ident	ify eight common computer keyboard faults.	(8 marks) (Total: 20 marks)			
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QUES (a)		Summarise six criteria that could be used for selecting a computer application package. (6 marl				
(b)	Sketch	(4 marks)				
(c)		Tom Njogu, a technician in a college noticed that on powering a computer, the monitor displays a hard drive failure error message.				
	Requ i Outlin	ired: ne the steps in troubleshooting the problem.	(4 marks)			
(d)	Teddy	Teddy Owen suspects that the processor of his computer is failing.				
	Requi Sugge	ired: est in six steps the procedure you would follow in replacing a faulty processor.	(6 marks) (Total: 20 marks			
QUES (a)	STION F Descr	illa tha fallacia a teasa af agamentar cimaga.				
	(i)	Direct action viruses.	(2 marks)			
	(ii)	Overwrite viruses.	(2 marks)			
	(iii)	Resident viruses.	(2 marks)			
(b)	Citing	(i) Direct action viruses. (ii) Overwrite viruses. (iii) Resident viruses. (iii) Resident viruses. (iii) Professional computer hardware installation. (iv) Professional computer software installation. (4 marks) (4 marks) (5 marks) (6 marks) (7 marks) (8 marks) (9 marks) (10 marks) (11 marks) (12 marks) (2 marks) (3 marks) (4 marks) (4 marks) (5 marks)				
	(i)	Professional computer hardware installation.	(4 marks)			
	(ii)	Professional computer software installation.	(4 marks			
(c)	As a recently promoted computer service manager, you have been tasked with selecting an outsourcing company to be responsible for all computer operations, including routine maintenance and enhancement of existing systems. Senior management has invited three outsourcing companies to tender for this business.					
	Requ Highl	ight six points that could be used to evaluate and select the outsourcing yendor.	(6 marks (Total: 20 marks)			
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