

## DICT LEVEL II

## COMPUTER SUPPORT AND MAINTENANCE

TUESI	OAY: 22	Time Allowed: 3 hours.			
Answei	r ALL q	uestions. Marks allocated to each question are shown at the end of the question.			
QUES'	FION O	NE the following terms as used in computing:			
	(i)	Computer support.	(2 marks)		
	(ii)	Computer maintenance.	(2 marks)		
(b)	John Busuti, a technician at Mafunzo College was asked to replace a faulty optical drive.				
	<b>Requi</b> Outlin	red: e five components or tools necessary for the task.	(5 marks)		
(c)	(i)	Describe the term "incremental backup" as used in computing.	(2 marks)		
	(ii)	Highlight three advantages of incremental backup.	(3 marks)		
(d)	Joyce Maleki suspects that her desktop computer has overheating problems.				
	Required:				
	(i)	Identify two indicators of an overheating computer.	(2 marks)		
	(ii)	Suggest four possible causes of overheating in a computer.	(4 marks) (Total: 20 marks)		
OUES	TION T	wo satrii			
(a)		e two disadvantages of integrated motherboards.	(2 marks)		
(b)	Expla	in four ways of determining the type of processor that a computer is using.	(4 marks)		
(c)	Descr	ibe two methods of cooling a computer memory.	(4 marks)		
(d)	Examine five roles of a technical checklist in system selection and acquisition. (5 ma				
(e)	Outlin	te the steps involved in installing a computer monitor.	(5 marks) (Total: 20 marks)		
QUES (a)	TION T Sarah under	Maputo acquired a software product and found some installation specification requi	rements which she could not		
		Required: Explain to her the meaning of each of the specifications below:			
	(i)	WOW 64.	(2 marks)		
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	(ii)	XGA (1024 x 768).	(2 marks)		
	(iii)	Intel ® Core 2 duo 3.33 GHZ.	(2 marks)		
	(iv)	EULA.	(2 marks)		
(b)		Distinguish between a "hard disk drive (HDD)" and a "solid state drive (SSD)" based on each of the following criteria:			
	(i)	Speed.	(2 marks)		
	(ii)	Components.	(2 marks)		
	(iii)	Noise.	(2 marks)		
(c)	Tom N	Iluba is troubleshooting a computer and suspects a power supply related problem.			
	Requi (i)	red: Outline two indicators of a computer that has a power supply related problem.	(2 marks)		
	(ii)	Propose four diagnostic techniques and procedures that could help Tom Mluba determine related problems.	e the possible power (4 marks) (Total: 20 marks)		
QUES (a)	STION F Propos	OUR se four safety precautions you should observe when installing a motherboard.	(4 marks)		
(b)	Exami	ne four methods of installing BIOS updates.	(4 marks)		
(c)	Summ	arise three advantages and three disadvantages of a screenless display.	(6 marks)		
(d)	Analy	se three categories of technical support used in computing technology.	(6 marks) (Total: 20 marks)		
QUES (a)	STION F Explai	IVE n how the computer operating system could manage the following occurrences:			
	(i)	Computer running out of RAM.	(2 marks)		
	(ii)	A newly added peripheral device.	(2 marks)		
	(iii)	Correcting a hardware error during the booting process.	(2 marks)		
(b)		Jeff Kingi would like his new computer and mobile devices to assist him complete his assignments, pay bills, edit digital photos, post social media updates, and play games.			
	<b>Requi</b> Propo	red: se four programs and applications that Jeff Kingi should install in his computer and mobile of	devices. (4 marks)		
(c)	With 1	reference to question (b) above, describe how Jeff Kingi would address the following:			
	(i)	Detect computer viruses.	(2 marks)		
	(ii)	Backup his computer.	(2 marks)		
,	(iii)	Use firewall.	(2 marks)		
	(iv)	Defragment hard disks.	(2 marks)		
	(v)	Uninstall an application program.	(2 marks) (Total: 20 marks)		
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