

ATD LEVEL I

DCM LEVEL I

INFORMATION COMMUNICATION TECHNOLOGY

WEDNESDAY: 27 November 2019.		': 27 November 2019.	Time Allowed: 3 hours.	
Answe	r any FI	VE questions.	ALL questions carry equal marks.	
QUES ^r (a)	FION O Exami (ICT's	NE ne five factors that could lead to the successful implementation of info) in small businesses.	rmation communication technologies (5 marks)	
(b)	Highli	ght two ways that could be used to reduce the threats in a computer throug	h emails. (4 marks)	
(c)	(i)	Explain the term computer port.	(2 marks)	
	(ii)	Explain the term computer port. List two types of computer ports.	(2 marks)	
(d)	Using	examples differentiate between a search engine and a web browser.	(4 marks)	
(e)	Explain the following components:			
	(i)	Network interface card.	(1 mark)	
	(ii)	Modem.	· (1 mark)	
	(iii)	n the following components: Network interface card. Modem. Twisted pair cable.	(1 mark) (Total: 20 marks)	
QUEST (a)	FION To Sugges secure	WO It six actions which a company should take on a day-to-day basis to ensure and that processing can take place without disruption.	re as far as possible that data stored is (6 marks)	
(b)	Descril	pe four types of microcomputers.	(4 marks)	
(c)	Highlig	ght four components of an information system.	(4 marks)	
(d)	(i)	Define the term peripheral device.	(1 mark)	
•	(ii)	State an example of a peripheral device.	(1 mark)	
(e)	Using a	an example, distinguish between a field and a record as used in file manage	ement. (4 marks) (Total: 20 marks)	
QUEST (a)	FION THREE Explain the following types of software:			
	(i)	Malware.	(1 mark)	
	(ii)	Freeware.	(1 mark)	
	(iii)	Shareware.	(1 mark)	
	(iv)	Spyware.	(1 mark)	

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(b)	Printers	s could be classified as impact printers and non-impact printers.				
	State tv	vo examples in each class of the above types of printers.	(4 marks)			
(c)	Compare read only memory (ROM) and random access memory (RAM) based on the following criteria:					
	(i)	Size.	(2 marks)			
	(ii)	Use.	(2 marks)			
(d)	Differe	ntiate between multiprogramming and multiprocessing.	(4 marks)			
(e)	Citing an example, explain the term firmware.					
(f)	List tw	o components contained in a computer motherboard.	(2 marks) (Total: 20 marks)			
QUEST (a)	ΓΙΟΝ FC Cite fo languas	ur reasons why a programmer may be hesitant to develop a program using firs				
(b)	Explain	four factors that might affect the method of file organisation.	(8 marks)			
(c)	Describ					
	(i)	pe the following word processing features: Print preview. Watermark. Indent.	(2 marks)			
	(ii)	Watermark.	(2 marks)			
	(iii)	Indent.	(2 marks)			
(d)	State tw	vo teasons why a graphical user interface (GOI) is constituted easier to use than a co	mmand driven interface. (2 marks) (Total: 20 marks)			
(a)	Describe the following file processing activities:					
	(i)	File merging.	(2 marks)			
	(ii)	File sorting.	(2 marks)			
(b)	Assess	four potential impacts of an attack on information systems.	(8 marks)			
(c)	Outline	six disadvantages associated with the use of internet.	(6 marks)			
(d)	Explain the meaning of Knowledge workers" in the context of information systems.					
			(2 marks) (Total: 20 marks)			
QUEST (a)	FION SIX Your organisation has invited an IT consultant to advice on the concept of cloud computing. The IT consultant said, "It is a great idea to embrace cloud computing but there are challenges associated with it".					
	Requir	ed: Justify the need to embrace cloud computing in an organisation.	(5 marks)			
	(ii)	Assess five challenges associated with cloud computing.	(5 marks)			
(b)	Explain	the following types of operating systems:				
	(i)	Time sharing operating system.	(2 marks)			
	(ii)	Real time operating system.	(2 marks)			
(c)	Enumer	rate six stages of data processing cycle.	(6 marks) (Total: 20 marks)			

QUE:	STION S State	SEVEN three metrics which could be used when evaluating hardware performance.	(3 marks)	
(b)	(i)	State four automated data capture techniques that could be used by an organisation.	(4 marks)	
	(ii)	List four precautionary measures taken when using automated data input techniques.	(4 marks)	
(c)	Ident	tify four features of e-commerce.	(4 marks)	
(d)	(i)	Define the term virtual private network (VPN).	(1 mark)	
	(ii) Explain four benefits that could accrue to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to an organisation as a result of deploying virtual private to a result of the result of the private to a result of the result of t			
			(4 marks)	
			(Total: 20 marks)	

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