

ATD LEVEL I

DCM LEVEL I

INFORMATION COMMUNICATION TECHNOLOGY

WEDNESDAY: 27 November 2019. Time			Allowed: 3 hours.		
Answer any FIVE questions.			ALL questions carry equal marks.		
QUESTION ONE (a) Examine five factors that could lead to the successful implementation of information comme (ICT's) in small businesses.		tion communication technologies (5 marks)			
(b)	Highli	ight two ways that could be used to reduce the threats in a computer through en	nails. (4 marks)		
(c)	(i)	Explain the term computer port.	(2 marks)		
	(ii)	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)	Twisted pair cable.	(1 mark) (Total: 20 marks)		
QUES (a)	TION T Sugge secure	WO set six actions which a company should take on a day-to-day basis to ensure as and that processing can take place without disruption.	far as possible that data stored is (6 marks)		
(b)	Descri	ibe four types of microcomputers.	(4 marks)		
(c)	Highlight 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	an example, distinguish between a field and a record as used in file management	nt. (4 marks) (Total: 20 marks)		
QUES (a)	TION T Explai	THREE in 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	could be classified as impact printers and non-impact printers.			
	State tw	vo examples in each class of the above types of printers.	(4 marks)		
(c)	(c) Compare read only memory (ROM) and random access memory (RAM) based on the following criter				
	(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. (2 mar				
(f)	List two	o components contained in a computer motherboard.	(2 marks) (Total: 20 marks)		
QUEST (a)	FION FO Cite for languag	ur reasons why a programmer may be hesitant to develop a program using first gene	eration programming (4 marks)		
(b)	Explain	four factors that might affect the method of file organisation.	(8 marks)		
(c)	Describ	e the following word processing features:			
	(i)	Print preview.	(2 marks)		
	(ii)	Watermark.	(2 marks)		
	(iii)	Indent.	(2 marks)		
(d)	State two reasons why a graphical user interface (GUI) is considered easier to use than a command driven interface. (2 marks (Total: 20 marks)				
QUESTION FIVE (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 1)		
			(2 marks) (Total: 20 marks)		
QUEST (a)		X ganisation has invited an IT consultant to advice on the concept of cloud computing. The great idea to embrace cloud computing but there are challenges associated with it".	e IT consultant said,		
	Require (i)	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	ate six stages of data processing cycle.	(6 marks) (Total: 20 marks)		

(a)	State t	hree 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)	Identi	fy 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 networks (4 ma (Total: 20 ma		