

ATD LEVEL I

DCM LEVEL 1

INFORMATION COMMUNICATION TECHNOLOGY

TUESDAY: 21 May 2019.

(ii)

Hash tag.

Time Allowed: 3 hours.

ALL questions carry equal marks. Answer any FIVE questions. **QUESTION ONE** (3 marks) Assess three negative impacts of e-waste on the environment. (a) (i) Highlight two remedies that could be employed to address the e-waste menace (2 marks) (ii) Outline two activities that might be performed when updating a file.

Classify printers using the following criteria:

(i) Speed (3 marks) (b) (3 marks) (c) (2 marks) (d) (e) (2 marks) (2 marks) (ii) Characters printed per given time. Highlight three factors considered when selecting an input device for a computer system. (3 marks) (f) (Total: 20 marks) **QUESTION TWO** Outline two features of an operating system in a computer. (2 marks) (a) Examine three uses of a presentation software. (6 marks) (b) (i) State two examples of popular presentation software. (2 marks) (ii) Compare a "local area network (LAN)" and a "wide area network (WAN)" based on the following: (c) (2 marks) (i) Coverage. (2 marks) Form of data transmitted. (ii) (2 marks) Transmission speed. (iii) (d) Explain the following terms as used in social media: (2 marks) (i) Chat slang.

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(2 marks)

(Total: 20 marks)

QUES (a)	STION T Justify	THREE y the use of a transaction file in an accounting department.	(2 marks)			
(b)	State i	four reasons why mobile phones are regarded as computers.	(4 marks)			
(c)	A data analyst intends to introduce an application software to make the analysis of data gathered by a sales man eas					
	Requi	ired:				
	(i)	Examine five factors that could be used to select an appropriate software.	(5 marks)			
	(ii)	Identify the most suitable application software for the above type of work.	(1 mark)			
(d)	Apart	from a mouse, state two other input devices categorised as pointing devices.	(2 marks)			
(e)	Comp	Compare between read only memory (ROM) and random access memory (RAM) based on the following criteria:				
	(i)	Capacity.	(2 marks)			
	(ii)	Read/write.	(2 marks)			
	(iii)	Upgradability.	(2 marks) (Total: 20 marks)			
QUES (a)		OUR bought a computer with the following specifications:				
	RAM Hard I Monite Operate	Read/write. Upgradability. OUR bought a computer with the following specifications: ssor – dual core 2.4GHz (i5 intel processor) – 16GB Drive – 256GB solid state hard drive or – 23" widescreen LCD with Display Port/HDMI ting system – Windows 10 Home edition p Device – External hard drive and USB Flash Drive				
	Requi Explai					
	(i)	n the following in the context of computer hardware: 23" widescreen LCD. HDMI.	(1 mark)			
	(ii)	HDMI.	(1 mark)			
	(iii)	Processor – dual core 2.4GHz.	(1 mark)			
	(iv)	USB flash disk.	(1 mark)			
(b)	Outlin	e four benefits at mobile computing.	(4 marks)			
(c)	In each case, highlight three characteristics of the following information systems:					
•	(i)	Transaction processing system (TPS).	(3 marks)			
	(ii)	Executive support system (ESS).	(3 marks)			
(d)	Justify	the need of using hierarchical file structure in a computer.	(2 marks)			
(e)	Highli	ght four applications of computers in the banking sector.	(4 marks) (Total: 20 marks)			
QUES (a)	TION F. Explai	IVE n two benefits to an organisation of using Electronic Data Interchange (EDI).	(4 marks)			
(b)	In today's world, hacking of computerised systems is a reality.					
	Requi Outline	red: e four safeguards you could take to protect your personal computer from hackers.	(4 marks)			
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(d)	Identi	fy three advantages and two disadvantages of a laser printer.	(5 marks) (Total: 20 marks)			
	(iii)	Hard system.	(2 marks)			
	(ii)	Soft system.	(2 marks)			
	(i)	Cybernetic system.	(2 marks)			
(c)	Expla	in the following types of systems:				
	(ii)	Highlight three positive impacts of internet technology to the business sector in your country	ry. (3 marks)			
	Requi	Describe two business activities which could be done on the internet.	(2 marks)			
(b)	The internet has offered both benefits and challenges to businesses and their customers.					
	(ii)	Functional information system.	(2 marks)			
	(i)	Enterprise information system.	(2 marks)			
QUES (a)	STION S Citing	EVEN an example in each case describe the following types of information systems:				
	Requi Descr	ibe two major differences between DSS and MIS.	(4 marks) (Total: 20 marks)			
(d)		Decision support systems (DSS) and management information systems (MIS) both serve the management level of an organisation.				
	(iv)	Filtering.	(2 marks)			
	(iii)	Sorting.	(2 marks)			
	(ii)	What if analysis.	(2 marks)			
	(i)	Pivot table.	(2 marks)			
(c)	Descr	Describe the following features of a spreadsheet:				
(b)	Differ	rentiate between "hard copy output" and "soft copy output",	(2 marks)			
	(iii)	Diagnostic utility.	(2 marks)			
	(ii)	Uninstall utilities.	(2 marks)			
(a)	(i)	File compression utility.	(2 marks)			
QÚES (a)	STION S Expla	IX in the purpose of the following utility programs:				
	(ii)	"Simplex mode" and "half-duplex mode".	(4 marks) (Total: 20 marks)			
	(i)	"Coaxial cable" and "twisted wire pairs cable".	(4 marks)			
(d)	Differ	Differentiate between the following computer network terms:				
	(ii)	Telnet.	(2 marks)			
(-)	(i)	Newsgroups.	(2 marks)			
(c)	Explain the functions supported by the following internet services:					

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QÚE: (a)		TION SIX Explain the purpose of the following utility programs:				
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	(ii)	Uninstall utilities.	(2 marks			
	(iii)	Diagnostic utility.	(2 marks			
(b)	Differ	Diagnostic utility. entiate between "hard copy output" and "soft copy output", be the following features of a spreadsheet: Pivot table. What if analysis. Sorting. Filtering. on support systems (DSS) and management information systems (MIS) both serve the	(2 marks			
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QUES (a)	STION S Citing	an example in each case, describe the following types of information systems:				
	(i)	Enterprise information system.	(2 marks			
	(ii) ,	Functional information system.	(2 marks			
(b)	The internet has offered both benefits and challenges to businesses and their customers.					
	Requi (i)	red: Describe two business activities which could be done on the internet.	(2 marks			
	(ii)	Highlight three positive impacts of internet technology to the business sector in your	country. (3 marks			
(c)	Explai	n the following types of systems:				
	(i)	Cybernetic system.	(2 marks			
	(ii)	Soft system.	(2 marks			
	(iii)	Hard system.	(2 marks			
(d)	Identi	fy three advantages and two disadvantages of a laser printer.	(5 marks) (Total: 20 marks)			
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