

ATD LEVEL I

DCM LEVEL I

INFORMATION COMMUNICATION TECHNOLOGY

Time Allowed: 3 hours. TUESDAY: 28 November 2017. ALL questions carry equal marks. Answer any FIVE questions. **QUESTION ONE** List four external storage devices that could be used to transfer information from one computer to another. (4 marks) (4 marks) Differentiate between a "peer-to-peer" and a "client server" network. (b) Explain the function of the following in a computer system: (c) (2 marks) (i) Mother board. (2 marks) (ii) BIOS. (2 marks) RAM. (iii) (2 marks) (iv) ROM. (2 marks) (v) CMOS. (2 marks) (vi) Processor. (Total: 20 marks) **QUESTION TWO** (4 marks) Outline four advantages of online data capture. (a) Highlight four factors to consider when choosing an input device. (4 marks) (b) State six reasons for using computer based advertising in an organisation. (6 marks) (c) Describe the term "knowledge based systems" in the context of information systems. (2 marks) (d) (i) (4 marks) Explain two benefits of knowledge based systems within an organisation. (ii) (Total: 20 marks) **OUESTION THREE** State the main electronic component used in the following computer generations: (a) (1 mark) (i) First. (1 mark) Second. (ii) (1 mark) (iii) Third. (1 mark) (iv) Fourth. (1 mark) Fifth. (v) AD14 & CD14 Page 1

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(b)	(i)	Distinguish between an "impact printer" and a "non impact printer".	(4 marks)
	(ii)	Outline two advantages of each of the printers in (b) (i) above.	(4 marks)
(c)	Highli	ght seven safety measures that could be taken when using the social media.	(7 marks) (Total: 20 marks)
QUEST (a)	TION FOUR Explain the following terms as used in information security:		
	(i)	Hackers.	(2 marks)
	(ii)	Identify theft.	(2 marks)
	(iii)	Viruses.	(2 marks)
	(iv)	Spam.	(2 marks)
(b)	Descri	be three ways in which the intranet could be used in a college.	(6 marks)
(c)	(i)	Define the term "cloud computing".	(2 marks)
	(ii)	Highlight two benefits of cloud computing to an organisation.	(4 marks) (Total: 20 marks)
QUEST	FION F	IVE a suitable media in each case, explain the following file access methods:	
(4)	(i)	Sequential.	(3 marks)
	(ii)	Direct.	(3 marks)
	(iii)	Random.	(3 marks)
(b)	Outlin	e five main features of a spreadsheet program.	(5 marks)
(c)	Descri	Define the term "cloud computing". Highlight two benefits of cloud computing to an organisation. IVE a suitable media in each case, explain the following file access methods: Sequential. Direct. Random. e five main features of a spreadsheet program. be three benefits of using instant messaging in an organisation.	(6 marks) (Total: 20 marks)
	TION S		
	(i)	"Digital divide" and "network coverage".	(4 marks)
	. (ii)	"Teleworking" and "ideo conferencing".	(4 marks)
(b)	In rela	tion to information systems, differentiate between "structured" and "unstructured" decision	ons. (4 marks)
(c)	Highlight four factors that could lead to a poor management information system. (4 marks)		
(d)			(4 marks) (Total: 20 marks)
QUEST	FION S	EVEN State four automated data capture techniques that could be used by an organisation.	(4 marks)
(u)	(i) (ii)	Outline two strengths and two limitations associated with automated data capture.	(4 marks)
(b)		in four main functions of an operating system.	(8 marks)
(c)	Distinguish between "productivity software" and "software suite".		(4 marks)
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