KASNEB

ATD LEVEL I

DCM LEVEL I

INFORMATION COMMUNICATION TECHNOLOGY

PILOT PAPER

September 2015.		Time Allowed: 3 hours.
Answer any FIVE questions. ALL questions		ALL questions carry equal marks.
QUE (a)	STION ONE Using a well labelled diagram, describe the flow of data, instructions and comman	nds in a computer system. (7 marks)
(b)	Highlight five factors that determine the processing power of a computer.	(5 marks)
(c)	Distinguish between an "application software" and a "system software".	(2 marks)
(d)	Identify two characteristics of:	ess.cc
	(i) First generation computers.	(2 marks)
	(ii) Second generation computers.	(2 marks)
	(iii) Third generation computers.	(2 marks) (Total: 20 marks)
QUE (a)	Highlight five factors that determine the processing power of a computer. Distinguish between an "application software" and a "system software". Identify two characteristics of: (i) First generation computers. (ii) Second generation computers. (iii) Third generation computers. STION TWO Outline five functions of an operating system. Distinguish between: (i) "DVD-RAM" and "CD-RW". (ii) "Virtual memory" and "cache memory".	(5 marks)
(b)	Distinguish between:	
	(i) "DVD-RAM" and "CD-RW".	(4 marks)
	(ii) "Virtual memory" and "cache memory".	(4 marks)
(c)	Outline three methods of e-payments.	(3 marks)
(d)	State four advantages of using a database system rather than conventional file app	proach. (4 marks) (Total: 20 marks)
QUE (a)	STION THREE Describe three types of messaging systems.	(3 marks)
(b)	Outline four models of e-commerce.	(4 marks)
(c)	Explain the meaning of the following expressions:	,
(0)	(i) Assembly language is machine oriented.	(2 marks)
	(ii) High level languages are problem oriented.	(2 marks)
	(iii) Fourth generation languages are non-procedural languages.	(2 marks)
(1)		(2
(d)	List the characteristics of the following information systems:	(3 marks)
	(i) Transaction processing systems.	(5 marks)

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	(ii)	Decision support systems.	(2 marks)
	(iii)	Executive support systems.	(2 marks) (Total: 20 marks)
QUE (a)		N FOUR ain the controls listed below as used in computer systems:	
	(i)	Audit trail.	(2 marks)
	(ii)	Biometric controls.	(2 marks)
	(iii)	Encryption.	(2 marks)
	(iv)	Digital signature.	(2 marks)
	(v)	Back-up.	(2 marks)
(b)	Outli	ne five features of an accounting software.	(5 marks)
(c)	High	light five reasons why an organisation may opt to set up a computer network.	(5 marks) (Total: 20 marks)
QUE (a)		FIVE ribe two features of each of the following application softwares:	
	(i)	Word processing.	(2 marks)
	(ii)	Spreedsheets.	(2 marks)
	(iii)	Database package.	(2 marks)
(b)	Outli	ne four factors to consider when choosing/designing the methods of file organisation.	(4 marks)
(c)	High	ight two factors to consider when acquiring accomputer software.	(2 marks)
(d)	Exam	ine three ways in which the internet can be useful to a business.	(3 marks)
(e)	Ident	fy five factors to consider in the selection of data transmission media.	(5 marks) (Total: 20 marks)
QUE (a)	STION Distin	I SIX nguish between the following terms:	()
	(i)	Internet and intranet.	(4 marks)
	(ii)	Internet browser and protocol.	(4 marks)
(b)	List t	wo advantages of teleworking to an employee.	(2 marks)
(c)		e context of computer files, explain the relationship between hit rate, method of file ge media.	organisation and type of (6 marks)
(d)	Desci	ribe the purpose of the following computer network devices:	
	(i)	Front end processor.	(2 marks)
	(ii)	Multiplexer.	(2 marks) (Total: 20 marks)

QUES (a)	STION SEVEN Outline four factors to consider in the acquisition of an operating system.	(4 marks)
(b)	Describe two utility softwares.	(4 marks)
(c)	Describe three benefits which would accrue to a company as a result of having a computerised stock control s	ystem. (6 marks)
(d)	Distinguish between data workers and knowledge workers.	(6 marks)

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(Total: 20 marks)