

## ATD LEVEL 1

## DCM LEVEL I

## INFORMATION COMMUNICATION TECHNOLOGY

TUES	DAY: 27	November 2018.	Time Allowed: 3 hours.		
Answe	r any FIV	E questions.	ALL questions carry equal marks.		
QUES (a)	TION O Outline		bespoke software. (4 marks)		
(b)	List fiv	re computer embedded devices that might be used in the home environment	(5 marks)		
(c)	State th	ne five stages in the information technology infrastructure evolution.	(5 marks)		
(d)	Analys	e the purpose of the following software utilities:			
	(i)	System status utilities.	(2 marks)		
	(ii) -	Debuggers.	(2 marks)		
	(iii)	re computer embedded devices that might be used in the home environment the five stages in the information technology infrastructure evolution.  The five stages in the information technology infrastructure evolution.  The purpose of the following software utilities:  System status utilities.  Debuggers.  Dump utilities.  WO  The two collision detection methods used in data transmission.	(2 marks) (Total: 20 marks)		
QUESTION TWO  (a) Describe two collision detection methods used in data transmission. (4 marks)					
(b)	List fo	ur desirable features of notebook personal computers.	(4 marks)		
(c)	Contrast "optical character recognition" and "optical mark recognition" based on the following criteria:				
	(i)	Application area.	(2 marks)		
	(ii)	What is recognised.	(2 marks)		
(d)	Disting	guish between the following terms:			
	(i)	"CRT monitor" and "LCD monitor".	(4 marks)		
	(ii)	"Light pen" and "Joystick".	(4 marks) (Total: 20 marks)		
QUESTION THREE					
(a) Explain three reasons why a hotel might use M-commerce. (3 marks)					
(b)	With t	he aid of a diagram, illustrate the open systems interconnections model (OS	SI). (7 marks)		
(c)	(i)	Define the term "web browser".	(2 marks)		
	(ii)	State two commonly used web browsers.	(2 marks)		

(d)	Discuss the following e-payment methods:				
	(i)	Digital wallet.	(2 marks)		
	(ii)	Smart card.	(2 marks)		
	(iii)	Stored value payment system.	(2 marks) (Total: 20 marks)		
QUEST (a)	ΓΙΟΝ FC Explain	OUR is four reasons why images are used in the design of human computer interface (HCI).	(4 marks)		
(b)	Identify two examples of each of the following basis of classification of operating systems:				
	(i) ·	The services they provide.	(2 marks)		
	(ii)	The interface that makes them available to users and programs.	(2 marks)		
(c) <sup>1</sup>	Describ	be three documents created during mail merging in word processing.	(6 marks)		
(d)	Discuss	s the following methods used in computer memory allocation:			
	(i)	Continuous allocation.	(2 marks)		
	(ii)	Linked allocation.	(2 marks)		
	(iii)	the following methods used in computer memory allocation:  Continuous allocation.  Linked allocation.  Indexed allocation.  VE	(2 marks) (Total: 20 marks)		
QUES'	FION FI Highlig	VE ght four problems that might occur if a software is not the oughly tested before use.	(4 marks)		
(b)	Explain four guidelines of setting up a strong computer password.		(4 marks)		
(c)	Suggest four business processes that could be supported by spreadsheet software.		(4 marks)		
(d)	(i)	State four external sources of information for use in a decision support system.	(4 marks)		
	(ii)	Outline four types of reports produced by a decision support system.	(4 marks) (Total: 20 marks)		
QUES'	ΓΙΟΝ SI State fi	X ve precautionary measures taken to protect a compact disc from damage.	(5 marks)		
(b)	Identify five factors that you could consider when designing a method of file organisation.		(5 marks)		
(c)	Analys	e five factors that might determine the type of network topology to be used by an organisation	on. (5 marks)		
(d)	List fiv	ve types of cybercrime.	(5 marks) (Total: 20 marks)		
QUES'	TION SE State si	EVEN ix basic types of desktop applications.	(6 marks)		
(b)	With th	With the aid of diagrams, illustrate three types of charts that might be used to analyse business trends in spreadshee (6 mag			
(c)	Discus	s four benefits that might accrue to banks from advancing loans through mobile phone platfo	orms. (8 marks) (Total: 20 marks)		