

## ATD LEVEL I

## DCM LEVEL I

## INFORMATION COMMUNICATION TECHNOLOGY

TUESDAY: 24 November 2020. Time Allowed: 3 hours. Answer any FIVE questions. ALL questions carry equal marks. **QUESTION ONE** Describe four trends that have characterised the development of Information Communication Technology (ICT) infrastructure. (4 marks) (b) Explain the meaning of the following concepts of a computer file: (i) Hit rate. (2 marks) (ii) Sort. (2 marks) (iii) Append. (2 marks) (iv) Seek. (2 marks) (c) (i) State two functions of primary memory in a computer system. (2 marks) (ii) Recommend with a reason the major memory design constraint that must be given due consideration by the computer designer. (2 marks) Examine two performance metrics that could be applied by an organisation in assessing the investment in information (d) technology (IT) infrastructure. (2 marks) (e) Recommend the suitable media for the following file access methods: Random. (i) (1 mark) (ii) Direct. (1 mark) (Total: 20 marks) **QUESTION TWO** (i) Explain the term point-and-draw devices. (2 marks) (a) (ii) List four commonly used point-and-draw devices. (4 marks) State four components of an operating system. (b) (4 marks) (c) Outline four classifications of optical media. (4 marks) (d) Highlight six strategic uses of internet by a software industry. (6 marks) (Total: 20 marks)

QUEST (a)	Propose each cas	four relevant information systems that supports the different levels of an organisation giving	examples in (8 marks)		
(b)	State the electronic component used in the following computer generations:				
	(i)	First.	(1 mark)		
	(ii)	Second.	(1 mark)		
	(iii)	Third.	(1 mark)		
	(iv)	Fourth.	(1 mark)		
	(v)	Fifth.	(1 mark)		
(c)		e three measures that could be adopted by both software developers and client organisation from piracy.	ons to protect (3 marks)		
(d)	Highligh	nt four reasons for changing from manual to computerised systems.  (Total	(4 marks) al: 20 marks)		
QUEST (a)	State for	UR ur business applications supported by a Desktop Publishing (DTP) package.	(4 marks)		
(b)	Citing two examples in each case, differentiate between "guided" and "unguided" data transmission media. (8 marks				
(c)	Describe three types of charts available in a spreadsheet program. (6 mark				
(d)	State tw	o commonly used web browser in a web environment.  (Total	(2 marks) al: 20 marks)		
QUESTION FIVE  (a) State four basic evaluation criteria for a flat panel monitor. (4 mark					
(b)	(i)	Explain the term control as a component of a system.	(2 marks)		
	(ii)	State two components in a computer system which influence its behaviour.	(2 marks)		
(c)	Examine	e three advantages and three disadvantages of electronic government.	(6 marks)		
(d)	Describe	e three hardware devices found in a local area network (LAN).  (Total	(6 marks) al: 20 marks)		
QUEST (a)	Explain	the term "clock speed" stating its unit of measure.	(2 marks)		
(b) *	Besides	operating system, explain giving an example in each, two other components of a system software	e. (4 marks)		
(c)	(i)	Outline five features of an accounting package.	(5 marks)		
	(ii)	Explain three benefits of an accounting package.	(3 marks)		
	(iii)	List three examples of accounting packages.	(3 marks)		
(d)	Examine	e three operations done on a file by an operating system.  (Tot:	(3 marks) al: 20 marks)		

(a)	Identi	fy three types of a computer mouse.	(3 marks)		
(b)		orise the following peripheral devices in terms of input, output and storage devices: disk, sensor, speaker, flash memory, digital camera, bar code reader.	(6 marks)		
(c)	Assess two positive and two negative impacts that information communication technology (ICT) has had on people.  (4 marks				
(d)	One of the biggest negative impacts of the internet is the "internet addiction disorder (IAD)".				
	Requi	ired:  Explain the meaning of IAD.	(2 marks)		
	(ii)	Identify three symptoms of IAD.	(3 marks)		
(e)	List tw	wo limitations of computer files.	(2 marks)		

OUESTION SEVEN