2920/101
INTRODUCTION TO INFORMATION
COMMUNICATION TECHNOLOGY AND ETHICS
July 2011

Time: 3 hours



DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

MODULEI

INFORMATION COMMUNICATION TECHNOLOGY AND ETHICS

3 hours

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination:

Answer booklet:

Answer any FIVE of the following EIGHT questions.

This paper consists of 5 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

Turn over

(a) (i) State three benefits that can be realised by an organisation through the implementation of procurement policies for its computer hardware. (3 marks) (ii) Outline two issues addressed by the Computer Misuse Act. (2 marks) (b) (i) Define the term life skills. (2 marks) (ii) Assuming that you have acquired a job as a sales person for an organization. Your work involves travelling to different regions selling company products and services. Explain five life skills that you should possess in order to successfully carry out your duties. (5 marks) (c) (i) Differentiate between a microcomputer and a minicomputer. (4 marks) (ii) Distinguish between general and special purpose computers, giving one application area in each case. (4 marks) 2. (a) A firm intends to recruit a database administrator, a network administrator and a computer operator in its ICT department. Outline two roles of each of these ICT personnel in the company. (6 marks) (b) State two characteristics of each of the following generations of computers in terms of hardware technology: (i) first generation; (ii) second generation. (4 marks) A recent audit carried out in Maputu Company Limited revealed that the (c) company does not have an ICT policy. (i) Explain the use of such a document in an organization. (2 marks) (ii) Assuming that you are to develop such a policy for the company, explain three ways in which you would ensure that the content of the document is acceptable and practiced by everyone in the organisation. (6 marks) (iii) A customer with the company has found out that her confidential information had been leaked out. Explain the legislation that the company workers may be violating. (2 marks) 3 (a) (i) Classify the following storage media into either magnetic or optical: Hard disk, WORM disk, credit card, DVD-RW (2 marks) (ii) Outline four challenges posed by the introduction of ICT in schools. (4 marks) (b) (i) A hardware shop intends to acquire a printer to be used for printing invoices in triplicate using carbon paper. Suggest the most appropriate type of printer that is suitable for the task justifying your answer. (3 marks)

A survey conducted by a researcher established that many companies believe that (c) the development of a corporate social responsibility strategy can deliver real business benefits. Explain the meaning of the term corporate social responsibility. (2 marks) (i) Outline three activities that Zopac, a company dealing in sales of (11) computers to schools, is likely to engage in when attempting to implement such a strategy. (3 marks) State three benefits that such a strategy is likely to bring to the company. (iii) (3 marks) State four symptoms of stress. (2 marks) (a) (i) Job, a student in a Technical Institute preparing for the end of stage (ii) examination, has of late been feeling overwhelmed by long list of assignments and other obligations. Explain the life skill he may require in order to overcome this problem. (3 marks) Describe two ways in which emotions can influence behaviour. (4 marks) (b) (c) Name a network topology which contains a central node for message switching between the attached computers. (1 mark) Explain two weakness of the topology in (i). (ii) (4 marks) (iii) Describe three types of networks based on geographic scope. (6 marks) 5. (a) An organisation intends to set up voice mail services in order to support its clients countrywide. (i) Explain the term voice mail; (2 marks) State four ways in which the organisation will benefit from such a service. (4 marks) (b) Distinguish between typical and custom software installation. (4 marks) Outline four ways in which electronic damages associated with fluids can be (c) minimised in a laboratory. (4 marks)

State three circumstances under which a plotter may be preferred over a

			 (ii) Explain one way through which each of the following may contribute towards realisation of ergonomic standards: 				
				1.	Computer chairs;		
			1	11.	monitor screen;		
			1	ш.	work schedule.	(6 marks)	
	6.	(a)	Outline two positive ways in which ICT has affected secretarial servic organizations.			es in (2 marks)	
		(b)	A retail shop intends to install a bar code system at the point of sales terminal. Explain two benefits that the shop is likely to gain from this system. (4 marks)				
		(c)	(i) I	Expla	in three sources of work related conflicts at place of wo	rk.	
			(ii) Assuming that you have just been employed as a manager of a company and within your first few days in the office, you noticed that the production levels are below expectation. Explain feur factors that may indicate the existence of conflict between workers and management that could have led to decreased production. (8 marks)				
	7.	(a)	Explain	cplain the function for each of the following software:			
			(i) t	utility	programs;		
			(ii) c	comp	ilers.		
		(b)		Descr area:	ibe each of the following input devices giving a suitable	(4 marks) application	
			1	L	OCR;		
			1	11.	OMR.		
				Brispak, an upcoming auditing company, has adopted <i>telecommuting</i> as its mode of operation. (4 marks)			
			- 1	1.	Define the term telecommuting.	(2 marks)	
			- 1	11.	Outline four negative effects the company is likely to f adopting this approach.	nation of the same	
		(c)		the aid of a block diagram, represent the basic elements of a computer em, indicating clearly the flow of data and control signals. (6 marks)			
	8.	(a)	State four advantages of tailor made software over off-the-shelf software.				
		(b) Distinguish between integrated software and software suit				(4 marks) (4 marks)	
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- Outline four differences between primary and secondary storage in a computer system. (4 marks)
- (d) A school bought refurbished computers which had software already installed. The computer technician decided to format the computer hard disks and reinstall the software in all the computers.
 - Outline two reasons that could be have prompted the technician to take this action. (2 marks)
 - (ii) Describe the stages that the technician should follow in order to install the operating system successfully. Assume the hard disks had very large disk spaces. (4 marks)
 - (iii) During the installation of an operating system in one of the computers, the technician observed the following error message;

"Searching for Boot Record from CDROM..OK Press any key to boot from CD.....Error loading operating system..."

easywet.com

Explain two possible causes of this error.

(2 marks)