2920/101 INTRODUCTION TO ICT AND ETHICS November 2017

Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

MODULE I

INTRODUCTION TO ICT AND ETHICS

3 hours

INSTRUCTIONS TO CANDIDATES

NOTES

This paper consists of EIGHT questions.

Answer any FIVE of the EIGHT questions in the answer booklet provided.

All questions carry equal marks.

Candidates should answer the questions in English.

This paper consists of 4 printed pages.

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

C2017 The Kenya National Examinations Council

Turn over

	1.	(a)	Outline six limitations of the first generation computers.	(6 marks)	
		(b)	Describe each of the following types of computers, stating an area of applicatio	n for each:	
			(i) super computers;		
			(ii) mini computers.	(4 marks)	
		(c)	Distinguish between multiprogramming and multiprocessing as used in comput	er systems. (4 marks)	
		(d)	Jeremy, the systems analyst for Kipeo Company, intends to acquire computers to in the company. Advise Jeremy on three factors other than cost, he should consistent the computers.	to be used ider when (6 marks)	
	2,	(a)	Describe each of the following types of computer memories used in a computer system:		
			(i) SRAM;		
			(ii) EPROM.	(4 marks)	
		(b)	Jadesh College intends to employ a systems analyst. Outline four roles that the would perform.	analyst (4 marks)	
		(c)	Explain three circumstances that would necessitate an organization to purchase printer.	an impact (6 marks)	
	_	(d)	The manager of Kilog Company has realized that most of their computer staff v of time on social media. Explain three strategies that he could introduce to min time wastage. NOTES		
	3.	(a)	Explain the function of each of the following keyboard keys:		
			(i) Num Lock;		
			(ii) Escape.	(4 marks)	
		(b)	Describe each of the following terms as used in computer systems:		
			(i) plug and play;		
			(ii) BIOS.	(4 marks)	
		(c)	A certain company intends to hold a workshop on unethical behavior at the wor	k place.	
			 Explain two such behaviors that could be mentioned. 	(4 marks)	
			(ii) Outline two measures that could be put in place to reduce the unethical be	chaviors. (2 marks)	
		(d)	Jane is an ICT consultant at The Triple Company. She has advised the company purchase off the shelf software to install on their new computers. Explain three that may have contributed to this advice.	reasons (6 marks)	

(a)	Describe each of the following types of computer buses:			
	(i) data bus;			
	(ii) control bus.	(4 marks)		
(b)	Jupiter Company has started performing various social responsibility activities within the community. Explain three benefits of these activities to the company. (6 marks)			
(c)	Distinguish between analogue and digital computers.	(4 marks)		
(d)	A certain software developing company has resolved to have all its software co Explain three advantages the company would gain from this move.			
(a)	Explain each of the following terms as used in ICT and ethics: (i) phishing;			
	(ii) firewall;			
	(iii) service pack.	(6 marks)		
(b)	Outline four functions of the network operating system software.	(4 marks)		
(c)	Distinguish between fax machine and modem as used in ICT and ethics. (4 m			
(d)	A certain company intends to formulate and implement strategies to reduce stress among its computer staff. Explain three of these strategies. (6 marks			
(a)	Explain two causes of conflicts between employees at the work places.	(4 marks)		
(b)	Differentiate between dumb terminal and intelligent ferminal as applied in computer systems. (4 marks			
(c)	Explain three reasons that would necessitate a company to use wireless media over wired media in transmission of data. (6 marks			
(d)	With the aid of a diagram in each case, describe the following types of network (i) ring;	topologies		
	(ii) bus.	(6 marks)		
(a)	Explain three causes of low self esteem among employees in an organization.	(6 marks)		
(b)	Information Communication and Technology could be applied in research and fields to perform various tasks. Outline four of these tasks.	engineering (4 marks)		
(c)	Jacob intends to secure the company's data from being lost. Explain three software measures that he could put in place. (6 marks			
(d)	Distinguish between confidentiality and authenticity as applied in ICT and ethic	cs. (4 marks)		

5,

- (a) Outline three advantages of USB over serial ports as used in computer systems. (3 marks)
 - (b) Describe each of the following types of disk storage technologies as used in computer systems:
 - (i) optical;
 - (ii) magnetic. (4 marks)
 - (c) Computer operators are exposed to health problems due to prolonged working for long hours with computers. Explain four of these health problems. (8 marks)
 - (d) The following are features of an operating systems user interface. Use it to answer the questions that follow.

Windows, Menus, Icons, Pointers.

- (i) Identify the type of user interface described by the features. (1 mark)
- (ii) Explain two advantages of this interface to the user. (4 marks)

EDU NOTES

THIS IS THE LAST PRINTED PAGE.