2920/101 INTRODUCTION TO INFORMATION COMMUNICATION TECHNOLOGY AND ETHICS November 2018

Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

MODULE I

INTRODUCTION TO INFORMATION COMMUNICATION TECHNOLOGY AND ETHICS

3 hours

INSTRUCTIONS TO THE CANDIDATES

This paper consists of EIGHT questions.

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

Candidates should answer the questions in English.

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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.

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Turn over

1.	(a)	Explain each of the following terms as used in computers:				
		(i)	byte;	(2 marks)		
		(ii)	nibble.	(2 marks)		
	(b)	JK Company Ltd. intends to hire a consultant to address work conflicts among its staff Assume that you are hired as a consultant, outline four strategies that you could recommend to address the conflict. (4 mark				
	(c)	(i) State four file formats supported by flatbed scanners.		(2 marks)		
	(0)	(ii)	Distinguish between self esteem and self motivation as applied in life			
		(11)	Distinguish between self esteem and self montanion as applied in in	(4 marks)		
	(d)	(i)	Define the term tender as used in procurement of IT hardware and s	oftware. (2 marks)		
		(ii)	Spamming is one of the unethical ICT behaviours in organizations, strategies that could be used to manage it.	Explain two (4 marks)		
2.	(a)	State four factors that should be considered when selecting the main memory for a computer. (4 mark				
	(b)	(i)	DEF Company Ltd. intends to use data encryption to safeguard its d transmission. Describe two encryption techniques it could use.	ata during (4 marks)		
		(ii) Polly was required to replace the toner of a printer for her boss. Outline four precautions that she should ensure in order to complete the task. (4 marks)				
	,(c)	(i)	Token ring topology is widely used in cooperate computer network. two of its advantages that could be influencing this trend.	Explain (4 marks)		
	(a)	(ii) (i)	Explain two circumstances under which an organization would instructed in the selection of	(4 marks)		
			other than cost.	(3 marks)		
		(ii)	Distinguish between volatile and non volatile memory.	(4 marks)		
	(b)	Explain three negative impacts of social engineering in the society.		(6 marks)		
	(c)	Outline three circumstances under which computers would be disposed.		(3 marks)		
	(d)	Operating systems comes with several disk utility software. Outline four examples of such software. (4 mar				
(4)	(a)	Explain each of the following types of disk storage technologies:				
		(i)	optical;	(2 marks)		
		(ii)	magnetic.	(2 marks)		
	(b)	Diffe	erentiate between a system-user and a super user.	(4 marks)		
	(c)	Computers use ports to meet input and output needs. Describe two types of these ports that could be found in computers. (4 marks)				
	(d)	 Anna was experiencing change management issues when rolling out soo responsibility program in her company. Explain two strategies that she use to mitigate this challenge. 				

		(11)	two reasons that could inform such a decision.	ness. Explain (4 marks)	
(8.)	(a)	Outline three possible causes of power failure in computers.			
	(b)	Explain three positive aspects of computer hacking in the society. (6			
	(c)	(i)	Outline two qualities expected of a leader in a computer based of	#1000000000000000000000000000000000000	
		(ii)	Charles intends to buy a computer monitor. Outline three types he could select.	of monitors that (3 marks)	
	(d)	Oper	olain three such (6 marks)		
(3)	(a)	Explain two categories of software licensing options. (4 mas			
	(b)	For each of the following case, identify the appropriate type of the network based or geographical coverage: [In additional coverage of networks: Edunotes.co.ket]			
		(i)	connect infinite number of networks;	(I mark)	
		(ii)	connect computers within a building;	(1 mark)	
		(iii)	connect different offices of a county government in a town;	(1 mark)	
		(iv)	connect upcountry branches;	(1 mark)	
	(c)	Passwords are synonymous with computer systems. Outline four guidelines that shou be adhered to by computer users to benefit from this security feature. (4 mark			
	(d)	(i)	With the aid of an example in each case, describe two types of p be used in business.	rinter that could (4 marks)	
		(ii)	Sam was nominated to chair an ICT meeting in his company. Or skills that he could apply to realize success of the meeting.	utline four life (4 marks)	
Ŧ	(a)	Differentiate between Control Unit (CU) and Arithmetic & Logic Unit (ALU) as used in computers. (4 mar			
	(b)	For each of the following functions identify the appropriate cat that is responsible.		keyboard keys	
		(i)	enter texts and numbers in text editor program;	(1 mark)	
18		(ii)	modify the normal action of another key;	(1 mark)	
		(iii)	move the cursor to different positions on the screen.;	(1 mark)	
		(iv)	acts as a short cut to perform specific task in a computer.	(1 mark)	
	(c)	Most government are striving to implement e-government to ease doing Explain three hindrances to this noble activity in sub Sahara Africa.		business. (6 marks)	
	(d)	Morris intends to build computer network for his company. Explain three benefits that are likely to be realized by the staff.			
8.	(a)	(i)	List four examples of pointing devices used in computers.	(2 marks)	
		(ii)	Differentiate between competing and withdrawal conflict manage techniques	ement (4 marks)	
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- (b) Outline four attributes that could be used to attest safeness of software. (4 marks)
- (c) Ahead Company Ltd. used pirated software in it computer systems. Explain two negative impacts that could be experienced by the company while using the software. (4 marks)
- (d) (i) Agnes was required to propose computer laboratory rules for her company.
 Outline three examples rules that she could have proposed. (3 marks)
 - Software as a service (SaaS) is slowly gets adopted by small business enterprises. Outline three factors that could be affecting its fast adoption.
 (3 marks)

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