KASNEB

CICT PART II SECTION 4

DATA COMMUNICATION AND COMPUTER NETWORKS (PRACTICAL)

PILOT PAPER

Septe	Time Allowed: 3 hours.		
Answ	er ALI	L questions. Marks allocated to each question are shown at the end of the question.	
		N ONE vided with the following:	
PC	1	PC2 Switch Cables Printer	
(a)	Use tl	he above components to create a Local Area Network and apply the following configurat	ions:
		PC2: dress 192.168.0.1 IP address 192.168.0.4 ult gateway 192.168.0.1 Default gateway 192.168.0.9	N.
	Captu	are and save two screenshots in Question 1 document showing the above configurations.	(4 marks)
(b)	Deter	mine the number of hops a packet will make from PC 1 to PC 2. Capture the screenshots	s and save in Question 1. (4 marks)
(c)	Test t	the connectivity between the two computers. Capture and save the screenshots.	(4 marks)
(d)	Allow	w the printer installed in PC 1 (any printer) to be shared by users in the network.	
	Captu	ire and save the screenshots in Question 1 document showing the steps taken.	(4 marks)
(e)	Capture the screenshot in Question 1 document showing the steps followed to display the listening ports in your machine.		
OVER		ine. Question 1 document.	(4 marks) (Total: 20 marks)
QUES (a)		NTWO in how sensor network can be used to improve business services.	
	Save	your work in Question 2 document.	(4 marks)
(b)	Using	g PC 1, send a message containing "This is a test message" using the net.sent command.	(4 marks)
(c)	Confi	igure PC 2 to allow it use messaging service. Capture and save the screenshot showing the	ne settings. (4 marks)
(d)	Set in	aternet browser security level to medium-high. Save Question 2.	(2 marks)
(e)	(i)	Using computer management console create a user account called CICT ensuring the password and the password never expires.	at the user cannot change
		Capture the screenshots in Question 2 document.	(2 marks)
	(ii)	Create a group called KASNEB and add the user account created in e (i) above.	
		Capture the screenshots in Question 2 document.	
		Save and print Question 2 document.	(4 marks)

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QUE (a)	STION THREE Ratio frequency identification (RFID) tags use wireless electromagnetic fields to electronically communicate/signals.	send			
	Describe three ways in which RFID tags can be used by industries to perform tasks or operations. (6 ma	arks)			
(b)	Using PC 1 default printer, allow everyone to manage the printer and documents. Capture the screenshots and save your work. (4 marks)				
(c)	A network administrator logged in to domain user account and popped up a notification message "Account is trusted delegation".	d for			
	Explain what the message implies. (4 ma	ırks)			
(d)	On PC 1, create a folder with your registration number and share it to your network. Capture the screenshot of folder opened on PC 2.	f the			
	Print Question 3 document. (6 ma (Total: 20 ma				
QUE (a) (b)	Describe any three physical topologies commonly used in setting up a network. Save your work in Questic document. Use PC 1 to configure the virtual private network with the following settings:				
	Describe any three physical topologies commonly used in setting up a network. Save your work in Questic document. Use PC 1 to configure the virtual private network with the following settings: VPN provider = windows (builtin) Connection name = CICT Server name = KASNEB VPN type = SSTP Type of sign in = Smart card				
	Capture the screenshots showing the procedures taken and save them a Question 4 document. (8 mg	ırks)			
(c)	State the devices you would interconnect using the following caples:				
	v O	nark)			
	(ii) Cross over. (1 m	nark)			
		nark)			
(d)	Turn on file and printer sharing on PC1and capture the screenshot showing the settings. Save your work in Questi document.				
	Print Question 4 document. (3 ma (Total: 20 ma				
QUE (a)	ESTION FIVE Explain one software you would use to analyse network packets. Save your work in Question 5 document. (2 mag)	arks)			
(b)	Capture the screenshors showing step by step how to configure your PC to automatically load WWLAN autoco service when the computer is started.	onfig			
	Capture the screenshots in the document question. (6 mg	arks)			
(c)	Osciuoscopes are electronic test instruments that allow observation of constantly varying signal voltages. Describe two types of digital osciuoscopes. (4 ma	arks)			
<i>(</i> 1)					
(d)	Use PC 1 to monitor network utilisation on the Local Area Network you have created. Capture the screenshot and save it in Question 5 document. (6 ma	arks)			
(e)	Capture the screenshot showing how to test the working of your network interface card. Capture them in a document named Question 5. Print the document. (2 ma (Total: 20 ma)	arks)			
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