0 1	A network with a physical star topology can have a logical bus topology.	
0 1.1	Describe the difference between a physical and a logical topology.	[2 marks]
0   1   .   2	Explain the operation of a physical star topology.	[2 marks]
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	A new bank is setting up an internal network.	
0 1 . 3	Two types of networking are client-server and peer-to-peer. With reference to the needs of the bank and the properties of the two types of networking, explain why the bank should implement a client-server rather than a peer-to-peer network.	
	[6 marks	s]
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0   2	Three students share a house when they go to university and have set up a peer-to-peer network between their computers for sharing files and playing multi-user games.
0 2 . 1	Explain why a peer-to-peer network might be a better choice for the students than a client-server network.  [2 marks]

0 2 . 2	Discuss how encrypting data with WPA/WPA2, disabling SSID broadcast MAC address whitelisting could enhance the security of a WiFi network.	
	WAC address writeristing could enhance the security of a Wirt Hetwork.	[3 marks]

	<ul> <li>Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA) with Reques to Send/Clear to Send (RTS/CTS)</li> <li>Majority Voting.</li> </ul>
	Explain the process the transmitting device will go through to transmit data and what the receiving device would then do when it receives data.  [8 marks
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0 2 . 3 When transmitting data, the wireless network uses the following systems:

0 3.1	Explain the operation of a logical bus network topology.	[3 marks]

0 4.1	Explain how a physical star topology can behave logically as a bus network.  [2 marks	s]
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0 5.1	Explain the purpose of a Service Set Identifier (SSID) in wireless networking <b>and</b> how disabling SSID broadcasting can make a network more secure.	
	[2 marks]	
0 5 . 2	Explain the role of the security protocol WPA2 in wireless networking.	
	[2 marks]	
0   5   3	MAC (Media Access Control) address filtering is another method that can be used to make a wireless network more secure by only allowing devices with a MAC address	
	that is on a list of allowed addresses to use the network.	
	Describe <b>two</b> reasons why using this method would be an inappropriate choice for a	
	coffee shop that is providing Internet access to its customers.	
	[2 marks]	

0 6 . 1	Explain the operation of a physical star network topology.	[2 marks]
0 6.2	Explain how client-server networking operates.	[2 marks]

0 7.1	Describe the difference between baud rate and bit rate.  [2 marks]
07.2	A photographer wants to create a large file sharing network to allow thousands of photographers to share their photos with each other for free.  State <b>two</b> reasons why the photographer may choose to use a peer-to-peer network rather than a client-server network.  [2 marks]
0 7.3	Explain the purpose of a Service Set Identifier (SSID).  [1 mark]

0 7.4	Explain how disabling SSID broadcasting can increase the security of a wireless network.	[2 marks]