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The answers on this worksheet have been taken from the 2018 OCR GCSE Computer Science Paper 1

<u>6-A-Day – Computer Science GCSE (p1.6-2016)</u>

Ql	 1 mark for LAN 1 mark per bullet for justification to max 2 Small distance/geographical area by example e.g. same building/house Connected by own hardware/infrastructure // not connecting through Internet // no hired/third-party infrastructure // dedicated connection 			3 AO2 1a AO2 1b		1	ified	– in a local area, local needs to in some way. WAN.
Q2	1 mark per row 5 0 mark for row with >1 tick							mark for row with >1 tick
QZ	Description	Ethernet W				1 1a (5)		
	A wired connection	 ✓ 						
	More likely to be affected by interference		~					
	Data can be transmitted at a faster speed	~						
	Wireless transmission		~					
	Shorter transmission range before data is lost		~					
Q3	 mark per bullet to max 2 Directs packets/data to destination // directs packets/data in a network Receives packets/data from the network/Internet Forwards packets/data to other computers on the network/Internet Connects (different) networks together // e.g. joins home network to Internet Has (public) IP address for LAN Designates (private) IP addresses to network nodes 				Controls flow of data as BOD for bullet 1. D1 1a (1) D1 1b (1) Bullet 1 needs to refer to the router directing the destination e.g. it is making a decision/choice on where to send it. Bullet 4 - it has to be referring to the connection between the Internet and home network, or forwarding of data between them. Just referring to accessing Internet is not enough. Do not allow information for data/packets			
Q4	1 mark per item to max 2 e.g. Network Interface card / NIC Wireless access point / WAP Wireless network interface card / WNI Bridge Switch Hub Repeater // wireless extender/booster Server	C / wi-fi card		2 AO1	1 1a ()	2) Ether	rnet j	odem, power line adapter, j ack an item of network hardware
Q5	Domain Name Server // DNS.					1 AO1 1a (1	1)	Allow Server/service/system
Q6	 1 mark for each letter in the correct place 1 The request is put into packets 2 E 3 The packets are sent across the network 4 D 5 A 6 If they have not arrived: 7 A timeout is sent to request the packet 8 If they have arrived: 9 B 10 C 			5 AO1	1b (5))		