

QUESTION 1.

0478/13

Question	Answer	Marks
6(b)	Any three from e.g.: – Keyboard – Printer – Mouse	3

Question	Answer	Marks
7(a)	Any three from: – Does not require peripherals (mouse or keyboard) – Number of possible inputs limited / menu driven interface – Less chance of input error – Resistant to weather	3
7(b)	– Uses two/multiple layers – When top layer touched / pushed two layers make contact – Circuit is completed when layers touch – Point of contact is determined/calculated	4

Question	Answer	Marks
7(a)(i)	Three from: • RAM • Primary memory • Volatile memory • Holds currently in use data/instructions • Directly accessed by the CPU	3
7(a)(ii)	Two from: • Arithmetic and logic unit (ALU) • Memory address register (MAR) • Memory data register (MDR) // Memory buffer register (MBR) • Accumulator (ACC) • Immediate Access Store (IAS) • Control Unit (CU) • Program counter (PC) • Current instruction register (CIR) • Address bus • Data bus • Control bus • Input device • Output device • Secondary storage device	2

Question	Answer	Marks																		
7(b)	One mark for each correct row <table> <tr> <th>Statement</th><th>True (✓)</th><th>False (✓)</th></tr> <tr> <td>Interrupts can be hardware based or software based</td><td>✓</td><td></td></tr> <tr> <td>Interrupts are handled by the operating system</td><td>✓</td><td></td></tr> <tr> <td>Interrupts allow a computer to multitask</td><td>✓</td><td></td></tr> <tr> <td>Interrupts work out which program to give priority to</td><td></td><td>✓</td></tr> <tr> <td>Interrupts are vital to a computer and it cannot function without them</td><td>✓</td><td></td></tr> </table>	Statement	True (✓)	False (✓)	Interrupts can be hardware based or software based	✓		Interrupts are handled by the operating system	✓		Interrupts allow a computer to multitask	✓		Interrupts work out which program to give priority to		✓	Interrupts are vital to a computer and it cannot function without them	✓		5
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Interrupts can be hardware based or software based	✓																			
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Interrupts are vital to a computer and it cannot function without them	✓																			

Question	Answer	Marks
8	Four from: • A hacker could have hacked the network ... • ... and downloaded the malware onto the network • Clicking a link/attachment/downloaded a file from an email/on a webpage ... • ... the malware could have been embedded into the link/attachment/file • Opening an infected software package ... • ... this would trigger the malware to download onto the network • Inserting an infected portable storage device ... • ... when the drive is accessed the malware is downloaded to the network • Firewall has been turned off ... • ... so malware would not be detected/checked for when entering network • Anti-malware has been turned off ... • ... so malware is not detected/checked for when files are downloaded	4