Question	Answer	Marks
6(a)	Range (check)	1
6(b)	Presence (check)	1
6(c)	Existence (check)	1

Question	Answer	Marks
8(a)	1 mark per bullet point	2
	<ul> <li>Security protects data against loss</li> <li>Privacy protects data against unauthorised access</li> </ul>	
8(b)	1 mark for a correct answer	1
	<ul> <li>Two factor authentication</li> <li>Biometric passwords</li> <li>Key Card Access</li> <li>Firewall</li> </ul>	

Question	Answer	Marks
8(c)	1 mark per correct answer to max 2	
	<ul> <li>Malware // viruses // spyware // by example</li> <li>Hacking</li> <li>Phishing</li> <li>Pharming</li> </ul>	

Question	Answer		
2(a)	1 mark per bullet point		
	<ul> <li>security is protecting data from loss / corruption</li> <li>integrity is ensuring the consistency / accuracy of the data</li> </ul>		
2(b)(i)	1 mark per bullet point		
	<ul> <li>validation checks that data is reasonable / sensible</li> <li>example e.g. checking data is the right number / type of characters</li> </ul>		
2(b)(ii)	1 mark per bullet point		
	<ul> <li>verification checks that data is the same as the original</li> <li>by example e.g. double entry</li> </ul>		
2(c)	1 mark per similarity to max 2	3	
	<ul> <li>Both are pieces of malicious software</li> <li>Both are downloaded / installed/run without the user's knowledge</li> <li>Both can pretend to be / are embedded in other legitimate software when downloaded // both try to avoid the firewall</li> <li>Both run in the background</li> </ul>		
	1 mark for difference		
	<ul> <li>Virus can damage computer data; spyware only records / accesses data</li> <li>Virus does not send data out of the computer; spyware sends recorded data to third party</li> <li>Virus replicates itself; spyware does not replicate itself</li> </ul>		

Question	Answer		
3(a)	Security prevents against loss while privacy prevents unauthorised access		
3(b)			

4(d)	1 mark per bullet point to max 3 for validation	4
	<ul> <li>e.g.</li> <li>range check to make sure it is between 0 and max marks</li> <li>presence check to make sure a mark is entered</li> <li>type check to make sure an integer value is entered</li> <li>1 mark per bullet point to max 2 for verification</li> <li>e.g.</li> <li>double entry - enter the mark twice and the computer compares them</li> <li>visual check – manually compare the mark entered with the mark on the input document</li> </ul>	

Question	Answer		Marks	
1(a)	1 mark for each correctly completed term.			
	Validation checks that the data entered is reasonable. One example is a presence check.  Verification checks that the data entered is the same as the original. One example is double entry.			
1(b)	1 mark for each correct entry			
	Security measure	Description		
	Disk mirroring	Data are written on two or more disks simultaneously.		
	Encryption	Contents are scrambled so they cannot be understood without a decryption key		
	Backup	A copy of the data is taken and stored in another location		