### **COMPUTER SCIENCE**



#### **End of topic quiz**



#### **Topic 1.4 Network security**

1.

a. Which two boxes are malware?

	Tick (✓)
Sandboxing	
Rootkit	
NAT router	
Key logger	

b.	What are <b>two</b> methods that could be used to infect a laptop with malware?
C.	What are <b>two</b> types of anti-malware that should be used to protect a laptop?

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2.	_	How could whiching take place at a hypirace?
	a.	How could phishing take place at a business?
	b.	What are <b>two</b> potential problems to a business if phishing takes place?
	•	Describe and other example of social engineering that employees at a hydroce
	C.	Describe <b>one</b> other example of social engineering that employees at a business should be aware of.
3.		
J.	a.	What is meant by the term 'brute-force attack'?
	b.	What are <b>four</b> features of a strong password?
	C.	What are <b>two</b> measures in addition to a password that could be used to keep a
		computer's data secure?

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4.		
	a.	What are <b>three</b> reasons why companies may be targeted by a denial of service attack?
	b.	What are <b>two</b> measures that a company could take to prepare for a denial of
		service attack?

**5.** It is important that all users of a computer network realise what they can and cannot access on the network. The **table** below lists some actions that a student, a tutor and a network manager have authority to perform on a school network.

Which action(s) should a student, a tutor and, or a network manager be able to perform?

Action	Student	Tutor	Network manager
Change system settings			
Access a shared area for students			
Add or delete network users			
Access the student's file and make changes to it			
Access a shared area for tutors			
Install software			

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	n important document containing personal a t a firm of accountants located in another p		ation to Saida. Saida
	What is <b>one</b> method that a business could will not be read by anyone except the inter		sensitive documents
b.	What is the plain text for this cipher when	a Caesar cipher is ι	ised?
	XLI HEXE I	MW WIGYVI	
C.	The <b>table</b> below lists three statements. W	hich statements are	True and False?
	Statement	True	False
	The Caesar cipher is an example of a substitution cipher.		
	A private key can be made available to everyone.		
	Advanced Encryption Standard uses 128-bit, 192-bit or 256-bit keys.		

6. Josh works in the finance department of a council. He has been asked by his manager to

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a.	What are <b>four</b> reasons why an attacker might want to target an organisation's database with an SQL injection?
b.	What are <b>two</b> measures that an organisation should take to guard their software applications from an SQL injection attack?
	M/h at are two advantages of value of firewall?
a.	What are <b>two</b> advantages of using a firewall?
b.	Give a comparison of intrusion detection and vulnerability testing.
	b.

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		network.
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9.	What are	four ways of physically protecting a network?

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