MODULE G SECURITY · G1

Malware: how it is used and its purpose

Original practice questions · 21 marks · ~25 minutes · OCR J277 spec 1.4.1

Name _____ Date _____

Instructions. Answer all questions in the spaces provided. The marks for each part are shown in brackets [ ]. The total for this worksheet is **21 marks**.

1

Total: 3 marks

(a) State what is meant by **malware**. **[1]**

(b) Give **two** ways that malware can get onto a computer system. **[2]**

1

2

2

Total: 4 marks

Once malware is on a computer, it can be written to carry out different actions.

(a) Tick (✓) **one** box in each row to show the main purpose of each malware action. **[4]**

Malware action	Steal data	Extort money	Delete or corrupt data	Take control of the device
Records every key pressed and sends a copy to the attacker				
Locks the user's files and shows a demand for payment to unlock them				
Overwrites documents with meaningless characters so they can no longer be opened				
Lets the attacker run commands on the computer from another location				

3 **Total: 4 marks**

(a) Tick (✓) **one** box in each row to show whether each statement about malware is true or false. **[4]**

Statement	True	False
Malware can be spread on a USB memory stick		
Malware can only get onto a computer if the user downloads it from a website		
Some malware can copy itself to other computers on a network without the user doing anything		
Malware always shows a warning message when it is installed		

4 **Total: 5 marks**

An employee at an accountancy firm downloads a free file-converter program from an unfamiliar website. The program converts files as expected, but it also secretly installs malware that records everything the employee types.

(a) Explain why the employee is unlikely to notice that malware has been installed. **[2]**

(b) Describe how the attacker could use the recorded data to harm the firm or its clients. **[3]**

5 **Total: 5 marks**

One morning, staff at a veterinary practice cannot open any of the files on the practice's server. Every computer shows a message demanding a payment before the files will be unlocked.

(a) State the purpose of this attack. **[1]**

(b) Explain **two** ways this attack could affect the veterinary practice. **[4]**

1

2

Total for this worksheet: 21 marks