



COMPUTER ENGINEERING

Level 4 Diploma

UNIT 2 – COMPUTER SECURITY

Question 1

Compare how keystroke loggers and packet sniffers can obtain passwords from users, with reference to how software could be designed to prevent such attacks. (20 marks)

Question 2

Analyse the attack vectors which viruses can use to infect a computer system. (20 marks)

Question 3

Review the differences between viruses, Trojans, worms and spyware. (20 marks)

Question 4

Explain the key differences between phishing and spear-phishing. (20 marks)

Question 5

Discuss the advantages and disadvantages of using a password management tool to store and remember passwords. (20 marks)

Question 6

Illustrate the 'man-in-the-middle' attack, providing appropriate annotations, and discuss the security implications of a successful attack. (20 marks)

Question 7

Recommend and describe at least FOUR precautions that businesses and customers can take when purchasing goods using an e-commerce system. (20 marks)