



Professional Qualification in COMPUTER ENGINEERING Level 4 Diploma

UNIT 2 – COMPUTER SECURITY

Question 1

- (a) **Explain** how an attack on program code in memory can introduce vulnerabilities to a computer system. (10 marks)
- (b) **Explain** how a 'man-in-the-middle' attack can affect the security of a computer system. (10 marks)

Question 2

Describe the symptoms of a successful attack by malware. (20 marks)

Question 3

Describe the methods used to protect a computer system against an attack by virus software. (20 marks)

Question 4

- (a) **Compare** and **contrast** phishing and spam as methods of attacking a computer system. (10 marks)
- (b) **Describe** how social engineering is used in attacks on computer systems. (10 marks)

Question 5

- (a) **Describe** ways of creating a strong password. (10 marks)
- (b) **Describe** the use of a password management tool in improving system security. (10 marks)