



## Professional Qualification in COMPUTER ENGINEERING Level 4 Diploma

### UNIT 2 – COMPUTER SECURITY

#### Question 1

- (a) **Identify** and **describe TWO** software vulnerabilities which could have an impact on the security of a computer system. (10 marks)
- (b) With reference to your answer to Question 1a, **illustrate** how the vulnerabilities described may damage security. (10 marks)

#### Question 2

- (a) **Explain** how network sniffing is a risk to security. (10 marks)
- (b) **Describe** the security risks associated with password cracking. (10 marks)

#### Question 3

- (a) **Discuss** the impact a successful attack may have on system resources. (10 marks)
- (b) **Discuss** how a successful attack may impact e-commerce applications. (10 marks)

#### Question 4

- (a) **Discuss** the role of a firewall in computer security. (10 marks)
- (b) **Explain** how an approved software policy would benefit computer security. (10 marks)

#### Question 5

- (a) **Describe** how search engine phishing can affect a computer system. (10 marks)
- (b) **Describe** broadcast attacks and how they may affect computer security. (10 marks)