



Professional Qualification in COMPUTER ENGINEERING Level 4 Diploma

UNIT 2 – COMPUTER SECURITY

Question 1

- (a) **State** what is meant by the term 'cross-site scripting'. (2 marks)
- (b) **Describe how** cross-site scripting is performed. (6 marks)
- (c) **Illustrate TWO** potential consequences of supplying sensitive data to a third party as a result of cross-site scripting. Use diagrams and/or examples to support your answer. (12 marks)

Question 2

- (a) **Explain** what is meant by the term 'attack vector'. (6 marks)
- (b) **Describe how** trojans infect a computer system. (6 marks)
- (c) **Compare why** email **and** external media are popular attack vectors for trojans. (8 marks)

Question 3

- (a) **State** what is meant by the term 'session hijacking'. (2 marks)
- (b) **Describe how** session hijacking occurs. (6 marks)
- (c) **Explain TWO** reasons **why** session hijacking can be an effective approach to gaining unauthorised access to sensitive data. (12 marks)

Question 4

- (a) **State** the meaning of the term 'weak password'. (2 marks)
- (b) **Explain why** passwords are often weak. (6 marks)
- (c) **Illustrate THREE** bad practices associated with weak passwords. Use diagrams and/or examples to support your answer. (12 marks)

Question 5

Illustrate how intrusion detection systems protect a computer system against attacks. Use diagrams and/or examples to support your answer. (20 marks)