

BCS Level 4 Award in Security Principles QAN 603/3255/4

Specimen Paper A

Record your surname / last / family name and initials on the answer sheet.

Specimen paper only 10 multiple-choice questions – 1 mark awarded to each question. Mark only one answer to each question. There are no trick questions.

A number of possible answers are given for each question, indicated by either **A. B. C. or D.** Your answers should be clearly indicated on the answer sheet.

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This qualification is regulated by Ofqual (in England).

- 1 When sending secure voice communications over a public IP-based packet switched network, which type of application communications protocol is **TYPICALLY** being used?
- A Wireless LAN.
 - B 3G / 4G.
 - C SSH.
 - D VoIP.
- 2 Which of the following activities will allow organisations to gather, organise, analyse and refine information about current cyber attacks that threaten an organisation and could then be used to help prevent potential future threats?
- A Threat actors.
 - B Threat intelligence.
 - C Attack simulation.
 - D Social engineering.
- 3 In cryptography, which of the following statements are TRUE when referring to how data is handled?
- a) Encryption is intended to ensure data confidentiality during transmission.
 - b) The receiver encrypts the data and the sender decrypts the data.
 - c) Output data is called cipher text for the encryption process.
 - d) Input data is called plain text for the encryption process.
 - e) Encrypted data can be manipulated during transmission.
- A a, b and c only.
 - B a, c and d only.
 - C b, d and e only.
 - D c, d and e only.
- 4 Server 2012 R2 is an operating system from which company?
- A Apple.
 - B Solaris.
 - C Microsoft.
 - D RedHat.

- 5 Which of the following **BEST** describes the Google Android platform?
- A It is a software stack for mobile platforms.
 - B It is an internet search engine for Windows platforms.
 - C It is an object orientated development platform.
 - D It is a hosted hypervisor for PC platforms.
- 6 Which of the following national bodies are responsible for sharing information on current and potential security threats to their local partners and organisations?
- A CERT.
 - B ISP.
 - C ROCU.
 - D SOC.
- 7 Which of the following techniques and tools can help to prevent social engineering attacks from being successful?
- a) Web filters blocking known phishing sites using resources like PhishTank.
 - b) Spam filtering to block unsolicited emails usually containing malicious links.
 - c) Intrusion detection system to detect and block incoming phishing attacks.
 - d) Security information and event management (SIEM) system to monitor responses to phishing attacks.
 - e) HTML filter on email clients / servers.
- A a, b and c only.
 - B a, b and e only.
 - C b, c and d only.
 - D c, d and e only.
- 8 When a user is attempting to login to a computer system, in which order do the following actions need to take place?
- A Authentication, Authorisation, Auditing.
 - B Authorisation, Authentication, Auditing.
 - C Auditing, Authentication, Authorisation.
 - D Authentication, Auditing, Authorisation.

- 9 A sandbox represents a well-known mechanism that is used for the safe execution of applications and code applets. Which of the following **COULD** the use of a sandbox help prevent?
- A Spoofing.
 - B Social engineering.
 - C Privilege escalation.
 - D Ransomware.
- 10 Which of the following are characteristics of a VPN?
- a) It is a secure network.
 - b) It can be deployed over a shared infrastructure.
 - c) Tunnelling techniques may be employed.
 - d) There are no cost savings compared to alternative connectivity options.
 - e) It provides a user with complete anonymity.
- A a, b and c only.
 - B a, c and e only.
 - C a, b and d only.
 - D b, d and e only.

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