

# BCS Level 4 Award in Network QAN 603/2892/7

## Specimen Paper A

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

**Sample paper only 20 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.

Pass mark is 13/20.

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**This qualification is regulated by Ofqual (in England).**

- 1 Which of the following is the **BEST** description of a LAN?
- A A virtual private network.
  - B An encrypted internet connection.
  - C An unencrypted internet connection.
  - D A group of computers sharing the same server and resources.
- 2 A customer has a Class B address allocation of 134.104.0.0 and wishes to further divide this into 16 subnets for use across departments. What subnet mask **SHOULD** be used to achieve this?
- A 138.172.0.16
  - B 255.255.16.0
  - C 255.255.240.0
  - D 255.255.255.16
- 3 What service is designed to assign IP addresses to nodes on a TCP/IP network during initialisation?
- A Telnet.
  - B PING.
  - C Netstat.
  - D DHCP.
- 4 Which of the following are routing protocols?
- A OSPF and TCP.
  - B RIP and UDP.
  - C TCP and UDP.
  - D OSPF and RIP.
- 5 Which network component manages VLANs?
- A Switch.
  - B Router.
  - C Hub.
  - D Firewall.

- 6 The OSI 7 layer model has seven protocol layers. Which layer falls between the Transport and the Data Link layer?
- A Physical.
  - B Data Link.
  - C Network.
  - D Application.
- 7 Which of the following is the **BEST** description of a WAN?
- A A local wireless network.
  - B A network over a large area.
  - C A network over a small area.
  - D A local wired network.
- 8 Which statement is TRUE for UDP?
- A It is more reliable than TCP.
  - B It uses handshaking.
  - C It is slow compared to TCP.
  - D It is a connectionless protocol.
- 9 What is the purpose of a default gateway?
- A To enable a computer to access the nearest domain controller.
  - B To enable a computer to find a route to another network or networks.
  - C To enable a computer to access the Microsoft gateway service.
  - D To provide access to database services.
- 10 A security administrator is evaluating firewalls to find the best solution for an office environment with an email server. Which of the following is an undesirable feature of a firewall in this environment?
- A Only specified traffic can be allowed to pass through.
  - B The firewall itself should be immune to penetration.
  - C It should allow for configuration changes by authorised users.
  - D It must only allow network traffic to travel from inside the network to the Internet.

- 11 Biometric authentication electromagnetic shielding and advanced locking mechanisms are **TYPICALLY** used as security in which OSI Layer?
- A Network.
  - B Physical.
  - C Transport.
  - D Presentation.
- 12 Which HTTPS port is **MOST** commonly used to secure websites?
- A 22.
  - B 443.
  - C 500.
  - D 706.
- 13 Media Access Control (MAC) is part of which OSI layer?
- A Network.
  - B Physical.
  - C Data Link.
  - D Transport.
- 14 Why does contention in a network cause a slow response for users?
- A Networks are limited in the number of connections.
  - B Causes data packets to be dropped.
  - C Causes data to be corrupted.
  - D Data has to be retransmitted.
- 15 Which of the following OSI layers detects and recovers from errors occurring on the physical media?
- A Data Link.
  - B Network.
  - C Transport.
  - D Physical.

- 16 What is an MCU?
- A Multipoint censor unit.
  - B Multipoint control unit.
  - C Monitoring control unit.
  - D Monitoring censor unit.
- 17 A device that converts real time voice between the public switched telephone network (PSTN) and an IP network is known as what?
- A Switch.
  - B Terminal.
  - C Gatekeeper.
  - D Gateway.
- 18 Which of the following is a **KEY** feature of IEEE 802?
- A Data confidentiality.
  - B Metropolitan area networks.
  - C Security standards.
  - D Large area networks.
- 19 WPA2 is **BEST** used for what type of security?
- A Remote Desktop.
  - B Wi-Fi.
  - C Router.
  - D Proxy servers.
- 20 How does an intrusion detection system (IDS) operate?
- A Reviews logs and events.
  - B Blocks unauthorised access.
  - C Stops unwanted traffic.
  - D Manages Group Policy.

**-End of Paper-**