BCS Level 3 Award in Networking and Architecture
QAN 603/0686/5

Specimen Paper A

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

Specimen 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. What is the decimal equivalent of the following binary number?

11010011

A. 83.
B. 147.
C. 179.
D. 211.

2. A server log shows that a large number of packets are not reaching their destination and the traffic report shows that the links are not over-utilised. Which of the following would BEST help diagnose the issue?

A. Multimeter.
B. Temperature monitor.
C. Cable tester.
D. Toner probe.

3. 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.

4. Which part of a computer can be used to reliably store information once the computer is switched off?

A. Hard disk drive.
B. Floppy disk drive.
C. Memory.
D. CPU.
5 What is a **KEY** difference between FAT32 and NTFS?

A FAT32 systems are faster.
B NTFS systems can't process files larger than 4 GB.
C NTFS systems are faster.
D FAT32 systems can't process files larger than 4 GB.

6 A technician working on a business-critical task has been asked by the customer to work on another networking issue that occurs intermittently. What **SHOULD** the technician do?

A Evaluate all the tasks assigned to them and prioritise the tasks based on business impact.
B Do what the customer has asked of them.
C Ignore the customer and continue with the current task.
D Try and do both tasks at once.

7 Which of the following is a benefit of employing Active Directory in an organisation?

A Decentralised management of users and computers.
B Decentralised management of files and folders.
C Centralised management of files and folders.
D Centralised management of users and computers.

8 An infrastructure technician has been asked to carry out a task at short notice. What **SHOULD** they do?

A Ensure that the task is logged in line with organisational guidelines.
B Re-prioritise all tasks in line with SLAs.
C Evaluate the potential impact of carrying out or ignoring the task.
D All of the these.
9  What type of connector is shown in the image below?

[Image of a network cable]

A  RJ45.
B  BNC.
C  RJ11.
D  F-Connector.

10  A technician has been asked to create an intranet site which will allow staff to access customer information. Which of the following will the technician require as well as a web server?

A  Web proxy server.
B  Database server.
C  Exchange server.
D  Application server.

11  A technician has identified a problem, established and confirmed a theory, and has attempted to resolve the problem. However, they do not have the access rights to make the needed changes. Which of the following actions SHOULD be done next?

A  Re-establish a new theory.
B  Gather more information.
C  Establish a plan of action.
D  Escalate the problem.

12  A user's computer has an IP address of 10.17.24.47 and a subnet mask of 255.255.0.0. Which of the following relates to the network portion of the address?

A  17.24.47
B  10.17.24
C  24.47
D  10.17
13 Which copper cable class is being described below?

- uses RJ45 jacks;
- data transfer rate up to 10 GB/s;
- uses frequency of 250 MHz;
- reduced cross-talk.

A  Cat4.
B  Cat5.
C  Cat5e.
D  Cat6.

14 What type of request would automatically assign an IP address from a server’s available address pool?

A  DNS.
B  DHCP.
C  VLAN.
D  VPN.

15 Which of the following network services is used to resolve FQDNs to IP addresses?

A  DNS.
B  FTP.
C  DHCP.
D  APIPA.

16 Which of the following is the **MAIN** reason to complete maintenance work records?

A  The customer asked for it to be done.
B  To improve the quality of future maintenance work.
C  To identify new business opportunities.
D  To improve the technician's skillset.
An infrastructure technician working in a Windows environment is required to create a security policy which will prohibit some users from shutting down their computers. Which of the following would be used for this task?

A Web Proxy Server.
B SQL Server.
C Central Administration Console.
D Active Directory.

Which of the following types of IP addresses would MOST LIKELY be configured on a server?

A Dynamic.
B IPv6.
C Static.
D IPv4.

What is the maximum number of characters allowed for a NETBIOS domain name?

A 13.
B 14.
C 15.
D 16.

Which of the following is a VALID record type on a DNS server?

A SVR.
B NX.
C CNAME.
D PRT.

-End of Paper-