Making IT good for society

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?

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.

17 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.

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

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

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

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

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

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

-End of Paper-