

9628-03 Level 4 Diploma in Network Principles (for the Level 4 Network Engineer Apprenticeship) 9628-403 Network Principles

Sample question paper

Duration: 45 minutes

Candidate's name:
Candidate's enrolment number:
Centre name:
Centre number:
Date:

- Which one of the following is the **key** feature of SAN?
 - a. It uses Fibre Channel for data transfer.
 - b. It is a low-cost alternative to NAS.
 - c. It uses wireless connectivity for data transfer.
 - d. It is compatible with SOHO.
- Which one of the following cloud-based services only provides access to the physical resources required to host operating systems and applications?
 - a. laaS
 - b. NaaS
 - c. PaaS
 - d. SaaS
- Which one of the following methods is used to transfer large files between websites?
 - a. TFTP
 - b. NTFS
 - c. NFS
 - d. FTP
- Which one of the following file systems enables storage and retrieval of data from multiple disks across a shared network using both Linux and Windowsbased OS?
 - a. NFS
 - b. DOS
 - c. NTFS
 - d. APFS
- Which one of the following protocols facilitates communication between email servers?
 - a. IMAP
 - b. POP
 - c. SMTP
 - d. EGP
- Which one of the following is the **main** reason for using the SSH protocol to connect to a remote terminal?
 - a. It allows guest logins.
 - b. It provides secure access.
 - c. It acts as a gateway suite.
 - d. It provides time-sensitive data.

- 7 Which one of the following allows multiple instances of an OS to be run on a single device?
 - a. HyperThreads.
 - b. Multi processing.
 - c. HyperVisor.
 - d. Multi queuing.
- 8 Which one of the following technologies enables clustering of multiple servers?
 - a. Grid computing.
 - b. Intranet.
 - c. Load balancing.
 - d. Virtualisation.
- Which one of the following allows data processing with the **minimum** delay following a disaster?
 - a. Cold site.
 - b. Warm site.
 - c. Hot site.
 - d. Spare site.
- 10 Which one of the following **best** describes a metropolitan network?
 - a. A network covering an entire city.
 - b. A network connecting different cities.
 - c. A network made up of multiple WANs.
 - d. A logical segmentation of a network.
- 11 What is the difference between an adhoc wireless network and a managed wireless network?
 - Managed networks have faster data rates
 - b. Adhoc networks do not use access points.
 - c. Adhoc networks are only used in emergencies.
 - d. Managed networks use different frequencies.
- 12 Which one of the following is a disadvantage of a Powerline based network?
 - a. It cannot perform at speeds more than 80Mbs.
 - b. It cannot be used to extend a wireless network.
 - c. Each room must have its own access point.
 - Data rates are affected by noise in the circuit.

- 13 Which one of the following is the **most** likely cause of drop in download speed when accessing broadband via an ADSL connection?
 - a. Wireless interference.
 - b. The cable is about to break.
 - c. The modem has not been set up correctly.
 - d. Other users are downloading large files.
- 14 Which one of the following technologies allows ad hoc device connections of **up to** 10 metres to transfer data?
 - a. RFC.
 - b. Bluetooth.
 - c. WiFi.
 - d. WiMAX.
- 15 In an Ethernet network, which one of the following devices uses IP addresses to calculate the next hop?
 - a. Firewall.
 - b. Switch.
 - c. NIC
 - d. Router.
- 16 Which one of the following devices filters traffic based on the destination MAC address?
 - a. Router.
 - b. Switch.
 - c. Repeater.
 - d. Hub.
- 17 Which layer in the TCP/IP model carries out the same function as the Data Link layer of the OSI model?
 - a. Internet.
 - b. Transport.
 - c. Application.
 - d. Network Access.
- 18 Which one of the following protocols functions at the transport layer in **both** the OSI and TCP/IP models?
 - a. UDP
 - b. SMTP
 - c. OSPF
 - d. NetBIOS

- 19 At which layer of the OSI model does ICMP operate?
 - a. Application.
 - b. Transport.
 - c. Network.
 - d. Physical.
- 20 Which one of the following devices is used when creating VLANs?
 - a. Layer 2 switch.
 - b. Bridge.
 - c. Layer 3 switch.
 - d. Gateway.
- 21 Which layer does a bridge operate at?
 - a. Data Link.
 - b. Network.
 - c. Transport.
 - d. Session.
- 22 What is the **main** reason for implementing CIDR in an IPv4 addressing scheme?
 - a. To make more port addresses available.
 - b. To make addressing secure using IPSec.
 - c. To make more IP addresses available.
 - d. To translate between physical and logical addresses.
- 23 What is the **main** reason for an organisation to use Supernetting?
 - a. To enable interdomain gateways.
 - b. To segregate a defined area of a network.
 - c. To enhance the performance of RIP.
 - d. To aggregate multiple addresses of the same class.
- 24 For what are IPv4 Class D addresses reserved?
 - a. Unicast.
 - b. APIPA.
 - c. Multicast.
 - d. Experimental use.

- 25 What is the binary equivalent of the decimal number 80?
 - a. 01010101
 - b. 10101000
 - c. 01010000
 - d. 10101110
- 26 What is the decimal equivalent of the binary number 0101010?
 - a. 26
 - b. 32
 - c. 40
 - d. 42
- 27 What is the decimal equivalent of the hexadecimal value AF?
 - a. 175
 - b. 114
 - c. 65
 - d. 25
- 28 Which one of the following is a reason for allocating a static IP address to a router?
 - a. It has lower administrative overheads when configuring the router.
 - b. It allows the implementation of OSPF on the router.
 - c. It allows secure access to the router terminal.
 - d. It provides a default path to the router.
- 29 Which one of the following is the **main** benefit of implementing dynamic routing?
 - a. Decreased routing overheads.
 - b. Scalability of networks.
 - c. Increased address pool.
 - d. Guaranteed delivery of data.

- 30 Which one of the following routing protocols is used to exchange routing and reachability information between autonomous systems?
 - a. BGP
 - b. EPG
 - c. IGRP
 - d. IS-IS

NOW GO BACK AND CHECK YOUR WORK

 IMPORTANT -Are the details at the top of the answer sheet correct?