Mock Test for Networking Fundamentals (3)

You need to score 30 to Pass

1) Which of the following cable types are designed to carry up to 100Mbps?
   (Select all that apply)

   A. Cat 5
   B. Cat 5e
   C. Cat 3
   D. Cat 6

2) How many twisted pairs are inside a cat 5 network cable?

   A. 2
   B. 3
   C. 4
   D. 5

3) Which communications channel media is affected by dispersion over distance
   (Select all that apply)

   A. Cat 5e
   B. Multimode Fibre Optic
   C. Cat 6
   D. Single mode Fibre Optic

4) Which layer of the OSI model deals with IP protocol?

   A. Data Link Layer
   B. Network Layer
   C. Session Layer
   D. Presentation Layer

5) Which layer of the OSI model does the user communicate with?

    A. Physical Layer
    B. Session Layer
    C. Application Layer
    D. Presentation Layer

6) What is the default sub-mask for an IPv4 Class A address?

    A. 255.255.255.255
    B. 255.0.0.0
    C. 255.255.0.0
    D. 255.255.255.0

7) In the OSI model which is the correct order of data encapsulation by a transmitting host?

    A. Segment, Packet, Data, Frame
    B. Frame, Packet, Segment, Data
    C. Packet, Frame, Data, Segment
    D. Data, Segment, Packet, Frame

8) At what layer of the OSI model does a Switch operate?

    A. Layer 4
    B. Layer 3
    C. Layer 2
    D. Layer 1

9) How many Host ID bits are involved with IPv4 Class C addressing?

    A. 16
    B. 8
    C. 24
    D. 32

10) Which protocol uses a handshake to ensure reliable communication?

        A. UDP
        B. TCP
        C. ARP
        D. DNS

11) Which one of the following is the main standard for the Ethernet?

        A. IEEE 802.16
        B. IEEE 802.15
        C. IEEE 802.3
        D. IEEE 802.11

12) Which of the following communication modes describes Full Duplex?

        A. Two-way simultaneous communication
        B. One-way communication
        C. Three-way simultaneous communication
        D. Two-way communication, one direction at a time

13) Which of the following situations would need a straight through network cable?
(Select all that apply)

        A. Host to Switch
        B. Host to Host
        C. Switch to Router
        D. Host to Hub

14) Which device enables a host to communicate with another host on a different network?

        A. Host
        B. Hub
        C. Router
        D. Switch

15) How many Host bits are involved with the Classless IPv4 address 192.162.10.0/28?

    A. 2
    B. 4
    C. 6
    D. 8

16) Which one of the following is a valid host range for the Network ID 192.30.10.0?

    A. 192.30.10.1 - 254
    B. 192.30.10.1 – 255
    C. 192.30.10.0 – 254
    D. 192.30.10.0 - 255

17) Which one of the following IP addresses is reserved as a Private IP address?

    A. 10.255.0.0
    B. 134.255.255.255
    C. 192.140.30.0
    D. 127.0.0.1

18) What is the range of the category "Dynamic and Private" Ports in a host?

    A. 0 - 1023
    B. 0 - 49151
    C. 1024 - 49151
    D. 49152 – 65535

19) For the well-known associated ports which port number is used for FTP?

    A. Port 21
    B. Port 80
    C. Port 25
    D. Port 443

20) For the Classless IPv4 address 200.110.10.0/25 what is the required sub-net mask?

     A. 255.0.0.0
     B. 255.255.255.192
     C. 255.255.255.128
     D. 255.255.255.224

21) What is the first octet range for a Class D IPv4 address?

     A. 128 - 191
     B. 192 - 223
     C. 240 - 255
     D. 224 – 239

22) What is the first octet range for a Class C IP address?

     A. 224 - 239
     B. 0 - 127
     C. 192 - 223
     D. 240 – 255

23) How many bits are in a MAC address?

     A. 56
     B. 48
     C. 40
     D. 32

24) What is the shortened (truncated) version of the IPv6 address 2001:4860:0000:2001:0000:0000:0000:0068?

    A. 2001:4860:0:2001:0:0:0:0068
    B. 2001:4860:0:2001::68
    C. 2001:4860:0:2001:0:68
    D. 2001:4860:0:2001::0068

25) What layer of the OSI model deals with logical addresses?

    A. Layer 4
    B. Layer 3
    C. Layer 2
    D. Layer 1

26) Which of the following are leased lines?
   (Select all that apply)

    A. T1
    B. F1
    C. E1
    D. R2

27) What is an alternative name for the CO?

    A. Local Exchange
    B. Changeover Office
    C. Private Exchange
    D. Public Switched Telephone Network

28) What OSI levels are generally involved with WAN technology?

    A. Layers 3 and 4
    B. Layers 2 and 3
    C. Layers 1 and 2
    D. Layers 2 and 4

29) What are the main jobs of a WAN?
   (Select all that apply)

    A. To communicate over a large geographical area
    B. To link computers within a single building
    C. To share information within a short distance
    D. To connect LANs together

30) Which of the following WAN technologies are circuit switched?
   (Select all that apply)

    A. Frame Relay
    B. Analogue Dial-up
    C. ISDN
    D. X.25

31) Which of the following WAN technologies work with Cells?

    A. ADSL
    B. Frame Relay
    C. ATM
    D. X.25

32) Which of the following devices can be described as a DTE in a WAN system?
   (Select all that apply)

    A. Computer
    B. Switch
    C. Host
    D. Router

33) What is the highest quoted speed for an ISDN connection with a PRI interface?

A. 56kbps
B. 128kbps
C. 64kbps
D. 2.048Mbps

34) Which DTE/DCE interface uses a 34 pin rectangular connector?

A. EIA/TIA – 612/613
B. X.21
C. V24
D. V35

35) What is the meaning of CPE?

A. Customer Premises Equipment
B. Customer Protection Equipment
C. Customer Private Equipment
D. Customer Public Equipment

36) Which of the following devices can be described as a DCE in a WAN system?
(Select all that apply)

A. Computer
B. Modem
C. CSU/DSU
D. Switch

37) What is the speed quoted for an T3 Leased Line connection?

A. 1.544Mbps
B. 44.736Mbps
C. 2.048Mbps
D. 34.368Mbps

38) What is a typical broadcast frequency for Wireless communication?

    A. 100MHZ
    B. 2.4GHZ
    C. 1MHZ
    D. 100GHZ

39) What is a PDU?

    A. Private Data Unit
    B. Public Data Unit
    C. Protocol Data Unit
    D. Public Driver Unit

40) Which layer of the OSI model organises the data into packets?

    A. Session Layer
    B. Transport Layer
    C. Network Layer
    D. Data Link Layer

41) Which of the following are a packet switched technology?
(Select all that apply)

    A. Frame Relay
    B. Analogue Dial-up
    C. ISDN
    D. X.25

42) What is the maximum speed quoted for Frame Relay?

    A. 56kbps
    B. 128kbps
    C. 64kbps
    D. 1.544Mbps

43) What is ATM?

        A. Asynchronous Transfer Mode
        B. Asymmetrical Transfer Mode
        C. Asymmetrical Transfer Model
        D. Asynchronous Transfer Model

44) Which are valid DSL connections?
    (Select all that apply)

        A. HDSL
        B. PDSL
        C. XDSL
        D. SDSL

45) What is the maximum quoted distance for an ASDL line?

        A. 500m
        B. 100m
        C. 5000m
        D. 10m

46) What is a VPN?

        A. Virtual Public Network
        B. Virtual Private Network
        C. Viable Public Network
        D. Viable Private Network

47) What is a protocol that is used in VPNs?

        A. PPP
        B. X.21
        C. PPTP
        D. SMDS

48) What is a typical speed for a cable broadband connection?

A. 30Mbps
B. 1Mbps
C. 56kbps
D. 128kbps

49) What is the most secure method of communication in a WAN?

A. Packet Switching
B. Circuit Switching
C. Internet
D. Leased Line

50) What is the best technology to use for simultaneous voice and data?

A. Packet Switching
B. Circuit Switching
C. Cell Switching
D. Analogue Dial-up