Computer Network Test Paper

1. Who invented IP and some related Internet protocols?

B

a) Vinton Cerf and Bob Metcalfe

b) Vinton Cerf and Robert Kahn

c) Bob Metcalfe and Ivan Sutherlandd) Bob Metcalfe and David Clark

2. In the OSI reference model,

3. Theupper layersof the OSI model are, in correct order

Ba) Session, application, presentationb) Session, presentation, applicationc) Session, application, presentation, physicald) Application, presentation, session

4. Thelower layersof the OSI model are, in correct order

Da) physical, system, network, logical

b) physical, logical, network, systemc) physical, transport, network, data linkd) physical, data link, network, transport

5. The Internet Protocol (IP) generally corresponds to which OSI layer?

A

a) Network (layer three)

b) Transport (layer four)c) Data link (layer two)d) Session (layer five)

6. MTU stands for

C

a) Minimum Transfer Unit

b) Minimum Transmission Unitc) Maximum Transmission Unitd) Maximum Transfer Unit

7. What layer of the OSI model is designed to perform error detection functions?

B

a) Physicalb) Data linkc) Networkd) transport

8. Which of these network devices primarily functions at the OSI Network layer (layer 3)?

a) Switchb) Gateway

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Cc) Router

d) All of the above

9. What is the size of today’s standard (IPv4) IP address?

a) 4 bytes (32 bits)

b) 12 bytes (96 bits)c) 15 bytes (120 bits)d) 16 bytes (128 bits)

10. What is the size of the next-generation (IPv6) IP address?

a) 4 bytes (32 bits)b) 12 bytes (96 bits)c) 15 bytes (120 bits)d) 16 bytes (128 bits)

11. Which of the following higher-level protocols runs over IP?

a) FTPb) HTTPc) SMTP

d) All of the above

12. Which of the following IPv4 addresses is theloopbackaddress?

a) 0.0.0.0b) 10.0.0.1c) 127.0.0.1

d) 255.255.255.255

13. Which of the following IPv6 addresses is the loopback address?

a) 0::0b) 0::1

c) 127::0d) 127::1

14. The length of an IP datagram header can varydependingon the options used.What is the

smallest possible IP header size? a) 16 bytesb) 20 bytesc) 24 bytesd) 60 bytes

15. The source IP address for an IPv4 datagram is stored where in the header?

a) 2nd longword (bytes 5-8)b) 3rd longword (bytes 9-12)c) 4rd longword (bytes 13-16)

C

B

BCDA

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d) 5rd longword (bytes 17-20)

16. The destination IP address for an IPv4 datagram is stored where in the header?

a) 2nd longword (bytes 5-8)b) 3rd longword (bytes 9-12)

c) 4rd longword (bytes 13-16)d) 5rd longword (bytes 17-20)

17. The header length field in an IPv4 datagram contains the sizeof an IPheader measuredin

number ofa) Bitsb) Bytes

c) Longwords (4 bytes)d) None of the above

18. Can IP run over any other physical networks besides Ethernet?

a) No (and IP does not run over Ethernet)b) No

c) Yes (but IP does not run over Ethernet)d) Yes

19. What function does Address Resolution Protocol (ARP) perform?

a) Converts IP addresses to Ethernet addressesb) Automatically assigns IP addresses to computers

c) Prevents two computers from using the same IP address

d) None of the above

20. What mechanism does ARP use to resolve IP addresses?

a) Mathematical formulab) Lookup table

c) Central web site

d) Random number generator

21. Which utility program is designed to report whether a networked computer is responding at

a given IP address, and how long these responses take?a) tracerouteb) pingc) ttcpd) netstate

22. whichoftheseshellcommandssuppliestheIPaddressofacomputerrunningtheLinux

operating system? a) ipconfigb) ifconfig

B

B

B

AD

C

D

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