1. (Single) Which of the following organizations is not a common protocol standardization organization?( D )
2. IETF(Internet Engineering Task Force)
3. IEEE(Institute of Electrical and Electronics Engineers)
4. ISO(International Organization for Standardization)
5. IEC(International Electrotechnical Commission)
6. (Single) Which of the following transport-layer protocols is HTTP based on?( A )
7. TCP 80
8. TCP 23
9. TCP 25
10. UDP 69
11. (Multiple) Which of the following protocols are transport-layer protocols?( AC )
12. TCP
13. FTP
14. UDP
15. HTTP
16. (True or false) IP and MAC addresses must be encapsulated for communication on a network.( A )
17. True
18. False
19. (True or false) ARP Reply packets are broadcast.( B )
20. True
21. False
22. What are the benefits of the layered model?

Answer:

* 1. Clear division of functions and boundaries between layers facilitates the development, design, and troubleshooting of each component.
  2. The functions of each layer can be defined to impel industry standardization.
  3. Interfaces can be provided to enable communication between hardware and software on various networks, improving compatibility.

1. What are the common protocols at the application layer, transport layer, network layer, and data link layer?

Answer:

* 1. Application layer: HTTP, FTP, Telnet, and so on
  2. Transport layer: UDP and TCP
  3. Network layer: IP, ICMP, and so on
  4. Data link layer: Ethernet, PPP, PPPoE, and so on