1. PMTU Discovery is only available for IPv6. True or false?
2. What is the name of the concept that indicates that a path exists between two TCP/IP hosts on an internetwork?
   1. path discovery
   2. PMTU
   3. reachability
   4. route tracing
3. It’s up to the IP host that receives incoming ICMP messages to act on the content of those messages. True or false?
4. ICMPv6 messages are organized by Type codes. Which range of codes is used for ICMPv6 informational messages?
   1. 0–127
   2. 64–128
   3. 128–255
   4. 256–512
5. ICMP reports errors only about IP datagrams. Errors about error messages are not reported. True or false?
6. Which of the following ICMP message types relates to reachability analysis?
   1. Destination Unreachable
   2. Echo/Echo Reply
   3. Redirect
   4. Source Quench
7. Which of the following ICMP message types reports delivery errors?
8. Destination Unreachable
9. Echo/Echo Reply
10. Redirect
11. Source Quench
12. Which of the following ICMP message types relates to congestion control?
13. Destination Unreachable
14. Echo/Echo Reply
15. Redirect
16. Source Quench
17. Which of the following Windows command-line utilities performs connectivity or reachability tests?
18. Ping
19. Tracert
20. Traceroute
21. Ipconfig
22. Which of the following Windows command-line utilities performs path discovery tests?
    1. Ping
    2. Tracert
    3. Traceroute
    4. Ipconfig
23. Which of the following Windows OS command-line parameters for the ping command governs the TTL value?
    1. –f
    2. –i
    3. –l
    4. –w
24. Which of the following Windows OS command-line parameters for the ping command governs the Reply Timeout value?
    1. –f
    2. –i
    3. –l
    4. –w
25. Which of the following path discovery Windows OS command-line parameters turns off reverse DNS lookups?
    1. –a
    2. –d
    3. –h
    4. –w
26. What additional functionality does the Pathping utility provide?
    1. reports on all visited hosts and routers between a sender and a receiver
    2. resolves all possible IP addresses into symbolic names for visited nodes
    3. uses the ICMP Traceroute message type
    4. tests router and link latency
27. Which of the following statements best defines the intent of the PMTU process?
    1. determines the largest possible MTU in the path between sender and receiver
    2. determines the smallest possible MTU in the path between sender and receiver
    3. instructs the sender on what MTU to use to avoid further fragmentation en route
    4. justifies the inclusion of the DF flag in ICMP messages
28. Which of the following statements best describes a black hole router?
    1. a router that discards all incoming traffic
    2. a router that does not support PMTU but is configured to send Destination Unreachable messages
    3. a router that does not support PMTU and is configured not to send Destination Unreachable messages
    4. a router that does not support PMTU
29. Which value in bytes is the default MTU for IPv6 packets?
    1. 512
    2. 576
    3. 1024
    4. 1280
30. Which of the following accurately represents the default advertising rate for unsolicited ICMP Router Advertisements?
    1. every 30 seconds
    2. every 60 seconds
    3. two to five minutes
    4. 7 to 10 minutes
31. The ICMP redirection process serves only IP routers, not IP hosts. True or false?
32. What type of scan occurs when a series of ping requests for a range of IP addresses is performed?
    1. port scan
    2. protocol scan
    3. host probe (scan)
    4. network mapping