Unit 5

1. Open Shortest Path First (OSPF) is also called as \_\_\_\_\_\_\_\_\_\_\_\_\_  
   a) Link state protocol  
   b) Error-correction protocol  
   c) Routing information protocol  
   d) All of the mentioned  
   Answer: a  
   Explanation: Each OSPF router monitors the cost of the link to each of its neighbours and then floods the link state information to other routers in the network.
2. The computation of the shortest path in OSPF is usually done by \_\_\_\_\_\_\_\_\_\_\_\_  
   a) Bellman-ford algorithm  
   b) Routing information protocol  
   c) Dijkstra’s algorithm  
   d) Distance vector routing  
   Answer: c  
   Explanation: Shortest path in OSPF is usually computed by Dijkstra’s algorithm. It was proposed by Edsger W. Dijkstra in the year 1956. This algorithm computes the shortest path between nodes.
3. Which of the following is false with respect to the features of OSPF?  
   a) Support for fixed-length sunbathing by including the subnet mask in the routing message  
   b) More flexible link cost than can range from 1 to 65535  
   c) Use of designated router  
   d) Distribution of traffic over multiple paths that have equal cost to the destination  
   Answer: a  
   Explanation: Support for variable-length sunbathing by including the subnet mask in the routing message.
4. In OSPF, which protocol is used to discover neighbour routers automatically?  
   a) Link state protocol  
   b) Error-correction protocol  
   c) Routing information protocol  
   d) Hello protocol  
   Answer: d  
   Explanation: Hello protocol is used to discover neighbour routers automatically. It makes sure that the communication between neighbors are bidirectional.
5. Which of the following is not a type of OSPF packet?  
   a) Hello  
   b) Link-state request  
   c) Link-state response  
   d) Link-state ACK  
   Answer: c  
   Explanation: Five types of OSPF packets are: Hello, Database description, Link-state request, Link-state update, Link-state ACK.
6. Correct order of the operations of OSPF.  
   1 – Hello packets  
   2 – Propagation of link-state information and building of routing tables  
   3 – Establishing adjacencies and synchronisation database  
   a) 1-2-3  
   b) 1-3-2  
   c) 3-2-1  
   d) 2-1-3  
   Answer: b  
   Explanation: OSPF first implements a hello protocol. Then it later on tries to establish synchronisation with database. Later on building of routing tables is done.
7. In OSPF header, which field is used to detect errors in the packet?  
   a) Type  
   b) Area ID  
   c) Authentication type  
   d) Checksum  
   Answer: d  
   Explanation: Checksum field is used to detect errors. It makes sure that the data portions that are being sent are all in integrity. It can detect duplicated bits.
8. In OSPF database descriptor packet, if more database descriptor packet flows, ‘M’ field is set to \_\_\_\_\_\_\_\_\_\_\_\_  
   a) 1  
   b) 0  
   c) more  
   d) none  
   Answer: a  
   Explanation: M bit is set to 1.
9. In OSPF database descriptor packet, which field is used to indicate that the router is master?  
   a) M  
   b) MS  
   c) I  
   d) Options  
   Answer: b  
   Explanation: M bit is set to 1. These packets are exchanged when an adjacency is being initialized. Master sends these packets called polls to slave, and then slave sends back acknowledgments.
10. In OSPF database descriptor packet, which field is used to detect a missing packet?  
    a) LSA header  
    b) MS  
    c) Database descriptor sequence number  
    d) Options  
    Answer: c  
    Explanation: Sequence number field is used to detect a missing packet. LSA is abbreviation for link state advertisement. LSA is the main communication means for OSPF.
11. An OSPF router receives an LSA, the router checks its sequence number, and this  
    number matches the sequence number of the LSA that the receiving router already has.  
    What does the receiving router do with the LSA?  
    a) Ignores the LSA  
    b) Adds it to the database  
    c) Sends newer LSU update to source router  
    d) Floods the LSA to the other routers  
    Answer: a  
    Explanation: An OSPF router receives an LSA, the router checks its sequence number, and this number matches the sequence number of the LSA that the receiving router already has Ignores the LSA.
12. An OSPF router receives an LSA. The router checks its sequence number and finds that  
    this number is higher than the sequence number it already has. Which two tasks does  
    the router perform with the LSA?  
    a) Ignores the LSA  
    b) Adds it to the database  
    c) Sends newer LSU update to source router  
    d) Floods the LSA to the other routers  
    Answer: b  
    Explanation: An OSPF router receives an LSA. The router checks its sequence number and finds that this number is higher than the sequence number Adds it to the database, Floods the LSA to the other routers.
13. An OSPF router receives an LSA. The router checks its sequence number and finds that  
    this number is lower than the sequence number it already has. What does the router do  
    with the LSA?  
    a) ignores the LSA  
    b) adds it to the database  
    c) sends newer LSU update to source router  
    d) floods the LSA to the other routers  
    Answer: c  
    Explanation: An OSPF router receives an LSA. The router checks its sequence number and finds that this number is lower than the sequence number sends newer LSU update to source router.
14. E ach LSA has its own age timer. By default, how long does an LSA wait before requiring an update?  
    a) 30 seconds  
    b) 1 minute  
    c) 30 minutes  
    d) 1 hour  
    Answer: c  
    Explanation: Each LSA has its own age timer. By default, 30 minutes does an LSA wait before requiring an update.
15. Distance vector protocols use the concept of split horizon, but link-state routing protocols, such as OSPF, do not.  
    a) True  
    b) False  
    Answer: b  
    Explanation: Distance vector protocols use the concept of split horizon, but link-state routing protocols, such as OSPF, do not use this.
16. The outcome of Dijkstra’s calculation is used to populate the \_\_\_\_\_\_\_\_\_\_  
    a) Topology table  
    b) Routing table  
    c) Neighbor table  
    d) Adjacency table  
    Answer: b  
    Explanation: The outcome of Dijkstra’s calculation is used to populate the Routing table.
17. What is the IP protocol number for OSPF packets?  
    a) 89  
    b) 86  
    c) 20  
    d) 76  
    Answer: a
18. Which packet is NOT an OSPF packet type?  
    a) LSU  
    b) LSR  
    c) DBD  
    d) Query  
    Answer: d  
    Explanation: Query packet is NOT an OSPF packet type.
19. Which multicast address does the OSPF Hello protocol use?  
    a) 224.0.0.5  
    b) 224.0.0.6  
    c) 224.0.0.7  
    d) 224.0.0.8  
    Answer: a  
    Explanation: 224.0.0.5 is the multicast address does the OSPF Hello protocol use.
20. The Hello protocol sends periodic updates to ensure that a neighbor relationship is maintained between adjacent routers.  
    a) True  
    b) False  
    Answer: a  
    Explanation: The Hello protocol sends periodic updates to ensure that a neighbor relationship is maintained between adjacent routers.
21. DBD packets are involved during which two states?  
    a) Exstart  
    b) Loading  
    c) Exchange  
    d) Two-way  
    Answer: a  
    Explanation: DBD packets are involved during which two states Exstart, Exchange.
22. At which interval does OSPF refresh LSAs?  
    a) 10 seconds  
    b) 30 seconds  
    c) 30 minutes  
    d) 1 hour
23. EIGRP is a routing Protocol design by Cisco. (Yes/No)?  
    a) Yes  
    b) No  
    Answer: a  
    Explanation: EIGRP is a routing Protocol design by Cisco.
24. EIGRP metric is \_\_\_\_\_\_\_\_  
    a) K-values  
    b) Bandwidth only  
    c) Hop Count  
    d) Delay only  
    Answer: a  
    Explanation: EIGRP metric is K-values.
25. EIGRP can support \_\_\_\_\_\_\_\_\_\_\_\_  
    a) VLSM/subnetting  
    b) Auto summary  
    c) Unequal cast load balancing  
    d) All od the above  
    Answer: d  
    Explanation: VLSM/subnetting, Auto summary, Unequal cast load balancing.
26. EIGRP send the hello message after every \_\_\_\_\_\_\_\_\_\_\_ seconds  
    a) 5 seconds (LAN), 60 seconds (WAN)  
    b) 5 seconds (LAN), 5 seconds (WAN)  
    c) 15s  
    d) 180s  
    Answer: a  
    Explanation: EIGRP send the hello message after every5 seconds (LAN), 60 seconds (WAN).
27. Administrative distance for internal EIGRP is \_\_\_\_\_\_  
    a) 90  
    b) 170  
    c) 110  
    d) 91  
    Answer: a  
    Explanation: Administrative distance for internal EIGRP is 90.
28. The EIGRP metric values include:  
    a) Delay  
    b) Bandwidth  
    c) MTU  
    d) All of the above  
    Answer: d  
    Explanation: The EIGRP metric values are Delay, Bandwidth, and MTU.
29. For default gateway you will use which of following command on Cisco router?  
    a) IP default network  
    b) IP default gateway  
    c) IP default route  
    d) Default network  
    Answer: a  
    Explanation: IP default network command used in default gateway in Cisco router.
30. Administrative distance for external EIGRP route is \_\_\_\_\_\_\_  
    a) 90  
    b) 170  
    c) 110  
    d) 100  
    Answer: b  
    Explanation: Administrative distance for external EIGRP route is 170.
31. EIGRP uses the \_\_\_\_\_\_\_\_\_\_\_\_ algorithm for finding shortest path.  
    a) SPF  
    b) DUAL  
    c) Linkstat  
    d) Dikstraalgo  
    Answer: b  
    Explanation: EIGRP uses the DUAL algorithm for finding shortest path.
32. In EIGRP best path is known as the successor, where as backup path is known as \_\_\_\_\_\_\_\_\_\_  
    a) Feasible successor  
    b) Back-up route  
    c) Default route  
    d) There is no backup route in EIGRP  
    Answer: a  
    Explanation: Feasible successor is the backup path.
33. Which protocol should you select if the network diameter is more than 17 hops?  
    a) RIPv1  
    b) RIPv2  
    c) EIGRP  
    d) Both RIPv1 and RIPv2  
    Answer: a  
    Explanation: RIP v1 has network diameter is more than 17 hopes.
34. How often does a RIPv1 router broadcast its routing table by default?  
    a) Every 30 seconds  
    b) Every 60 seconds  
    c) Every 90 seconds  
    d) RIPv1 does not broadcast periodically  
    Answer: a  
    Explanation: Every 30 seconds RIPv1 router broadcast its routing table by default.
35. Which command displays RIP routing updates?  
    a) Show IP route  
    b) Debug IP rip  
    c) Show protocols  
    d) Debug IP route  
    Answer: b  
    Explanation: The debug IP rip command is used to show the Internet Protocol (IP) Routing Information Protocol (RIP) updates being sent and received on the router.
36. Two connected routers are configured with RIP routing. What will be the result when a router receives a routing update that contains a higher-cost path to a network already in its routing table?  
    a) The updated information will be added to the existing routing table Debug IP rip  
    b) The update will be ignored and no further action will occur Debug IP route  
    c) The updated information will replace the existing routing table entry  
    d) The existing routing table entry will be deleted from the routing table and all routers will exchange routing updates to reach convergence  
    Answer: b  
    Explanation: When a routing update is received by a router, the router first checks the administrative distance (AD) and always chooses the route with the lowest AD. However, if two routes are received and they both have the same AD, then the router will choose the one route with the lowest metrics, or in RIP’s case, hop count.
37. You type debug IP rip on your router console and see that 172.16.10.0 is being advertised to you with a metric of 16. What does this mean?  
    a) The route is 16 hops away Debug IP rip  
    b) The route has a delay of 16 microseconds Debug IP route  
    c) The route is inaccessible  
    d) The route is queued at 16 messages a second  
    Answer: c  
    Explanation: You cannot have 16 hops on a RIP network by default. If you receive a route advertised with a metric of 16, this means it is inaccessible.
38. Default administrative distance of Static Route  
    a) 0  
    b) 90  
    c) 100  
    d) 1  
    Answer: d  
    Explanation: 1 is the default administrative distance of Static Route.
39. Which protocol gives a full route table update every 30 seconds?  
    a) IEGRP  
    b) RIP  
    c) both IEGRP and RIP  
    d) none of the mentioned  
    Answer: b  
    Explanation: RIP gives a full route table update every 30 seconds.
40. Default administrative distance of RIP  
    a) 0  
    b) 90  
    c) 120  
    d) 130  
    Answer: c  
    Explanation: Default administrative distance of RIP is 120.
41. Which statement is true regarding classless routing protocol?  
    a) The use of discontinuous networks is not allowed  
    b) Use of variable length subnet masks is permitted  
    c) RIPv1 is a classless routing protocol  
    d) IGRP supports classes routing within the same autonomous system  
    Answer: b  
    Explanation: Use of variable length subnet masks is permittedis true regarding classless routing protocol.
42. Where we should use default routing  
    a) On stub networks- which have only one exit path out of the network  
    b) Which have more than one exit path out of the network  
    c) Minimum five exit paths out of the network  
    d) None of the mentioned  
    Answer: a  
    Explanation: On stub networks- which have only one exit path out of the networkuse default routing.
43. Which statement is true regarding classless routing protocols?  
    a) The use of discontinuous networks is not allowed  
    b) The use of variable length subnet masks is permitted  
    c) RIPv1 is a classless routing protocol  
    d) RIPv2 supports classless routing  
    Answer: b  
    Explanation: Classful routing means that all hosts in the internetwork use the same mask. Classless routing means that you can use Variable Length Subnet Masks (VLSMs) and can also support discontinuous networking.
44. What is route poisoning?  
    a) It sends back the protocol received from a router as a poison pill, which stops the regular updates. The use of variable length subnet masks is permitted  
    b) It is information received from a router that can’t be sent back to the originating router.RIPv2 supports classless routing  
    c) It prevents regular update messages from reinstating a route that has just come up  
    d) It describes when a router sets the metric for a downed link to infinity  
    Answer: d  
    Explanation: When a network goes down, the distance-vector routing protocol initiates route poisoning by advertising the network with a metric of 16, or unreachable.
45. Which of the following is true regarding RIPv2?  
    a) It has a lower administrative distance than RIPv1  
    b) It converges faster than RIPv1  
    c) It has the same timers as RIPv1  
    d) It is harder to configure than RIPv1  
    Answer: c  
    Explanation: RIPv2 is pretty much just like RIPv1. It has the same administrative distance and timers and is configured just like RIPv1.
46. Which of the situations might not require require multiple routing protocols in a network?  
    a) When a new Layer 2-only switch is added to the network  
    b) When you are migrating from one routing protocol to another  
    c) When you are using routers from multiple vendors  
    d) When there are host-based routers from multiple vendors  
    Answer: a  
    Explanation: One routing protocol to another, routers from multiple vendors,host-based routers from multiple vendors.
47. Which two routing protocols can be redistributed into OSPF by a Cisco router?  
    a) IP EIGRP and AppleTalk EIGRP  
    b) AppleTalk EIGRP and RIPv2  
    c) RIPv2 and IP EIGRP  
    d) IPX RIP & AppleTalk EIGRP  
    Answer: c  
    Explanation: IP EIGRP, RIPv2. These can be redistributed into OSPF by a Cisco router.
48. Which is a reason for avoiding doing route redistribution on two routers between the same two routing domains?  
    a) Higher cost of two routers  
    b) Routing feedback  
    c) Cisco IOS incompatibility  
    d) Not possible to use two routers  
    Answer: b  
    Explanation: Routing feedback is a reason for avoiding doing route redistribution on two routers between the same two routing domains.
49. What does administrative distance rank?  
    a) Metrics  
    b) Sources of routing information  
    c) Router reliability  
    d) Best paths  
    Answer: b  
    Explanation: Sources of routing information is the administrative distance rank.
50. Which protocol maintains neighbor adjacencies?  
    a) RIPv2 and EIGRP  
    b) IGRP and EIGRP  
    c) RIPv2  
    d) EIGRP  
    Answer: c  
    Explanation: RIP V2 maintains neighbor adjacencies.
51. Which routing protocol implements the diffusing update algorithm?  
    a) IS-IS  
    b) IGRP  
    c) EIGRP  
    d) OSPF  
    Answer: c  
    Explanation: EIGRProuting protocol implements the diffusing update algorithm.
52. Which protocol should you select if the network diameter is more than 17 hops?  
    a) RIPv1  
    b) RIPv2  
    c) EIGRP  
    d) All of the above  
    Answer: b  
    Explanation: RIPv2protocol should you select if the network diameter is more than 17 hops.
53. Term is used to place packet in its route to its destination is called  
    a) Delayed  
    b) Urgent  
    c) Forwarding  
    d) Delivering  
    Answer: c  
    Explanation: It is for transforming the message from source to destination with forward technique.
54. Network-Specific Method  
    b) Network-Specific Motion  
    c) Network-Specific Maintaining  
    d) Network-Specific Membership  
    Answer: a  
    Explanation: It is the before method of the packet switching.
55. Next-Hop Method is used to reduce contents of a  
    a) Revolving table  
    b) Rotating Table  
    c) Routing Table  
    d) Re-allocate table  
    Answer: c  
    Explanation: This method is for creating the shortest distances.
56. Several techniques can make size of routing table manageable and also handle issues such as  
    a) Maturity  
    b) Error reporting  
    c) Tunneling  
    d) Security  
    Answer: d  
    Explanation: To visible only accessing sub networks.
57. . Host-specific routing is used for purposes such as checking route or providing  
    a) Network Measures  
    b) Security Measures  
    c) Routing Measures  
    d) Delivery Measures  
    Answer: b  
    Explanation: Security measures.
58. In Unicast routing, if instability is between three nodes, stability cannot be  
    a) Stable  
    b) Reversed  
    c) Guaranteed  
    d) Forward  
    Answer: c  
    Explanation: It is only for unidirectional.
59. In Unicast Routing, Dijkstra algorithm creates a shortest path tree from a  
    a) Graph  
    b) Tree  
    c) Network  
    d) Link  
    Answer: a  
    Explanation: Graph technique is used for best node finding technic with shortest path algorithms.
60. In Multicast Routing Protocol, flooding is used to broadcast packets but it creates  
    a) Gaps  
    b) Loops  
    c) Holes  
    d) Links  
    Answer: b  
    Explanation: Loops is for multicast routing.
61. RPF stands for  
    a) Reverse Path Forwarding  
    b) Reverse Path Failure  
    c) Reverse Packet Forwarding  
    d) Reverse Protocol Failure  
    Answer: a  
    Explanation: Reverse Path Forwarding.
62. LSP stands for  
    a) Link Stable Packet  
    b) Link State Packet  
    c) Link State Protocol  
    d) Link State Path  
    Answer: b  
    Explanation: Link State Packet
63. IPSec is designed to provide the security at the  
    a) transport layer  
    b) network layer  
    c) application layer  
    d) session layer  
    Answer: b  
    Explanation: None.
64. In tunnel mode IPsec protects the  
    a) Entire IP packet  
    b) IP header  
    c) IP payload  
    d) None of the mentioned  
    Answer: a  
    Explanation: None.
65. Network layer firewall works as a  
    a) frame filter  
    b) packet filter  
    c) both frame filter and packet filter  
    d) none of the mentioned  
    Answer: b  
    Explanation: None.
66. Network layer firewall has two sub-categories as  
    a) stateful firewall and stateless firewall  
    b) bit oriented firewall and byte oriented firewall  
    c) frame firewall and packet firewall  
    d) none of the mentioned  
    Answer: a  
    Explanation: None.
67. WPA2 is used for security in  
    a) ethernet  
    b) bluetooth  
    c) wi-fi  
    d) none of the mentioned  
    Answer: c  
    Explanation: None.
68. An attempt to make a computer resource unavailable to its intended users is called  
    a) denial-of-service attack  
    b) virus attack  
    c) worms attack  
    d) botnet process  
    Answer: a  
    Explanation: None.
69. Extensible authentication protocol is authentication framework frequently used in  
    a) wired personal area network  
    b) wireless networks  
    c) wired local area network  
    d) none of the mentioned  
    Answer: b  
    Explanation: None.
70. Pretty good privacy (PGP) is used in  
    a) browser security  
    b) email security  
    c) FTP security  
    d) none of the mentioned  
    Answer: b  
    Explanation: None.
71. PGP encrypts data by using a block cipher called  
    a) international data encryption algorithm  
    b) private data encryption algorithm  
    c) intrenet data encryption algorithm  
    d) none of the mentioned  
    Answer: a  
    Explanation: None.
72. When a DNS server accepts and uses incorrect information from a host that has no authority giving that information, then it is called  
    a) DNS lookup  
    b) DNS hijacking  
    c) DNS spoofing  
    d) None of the mentioned  
    Answer: c  
    Explanation: None.
73. Datagram switching is done at which layer of OSI model?  
    a) Network layer  
    b) Physical layer  
    c) Application layer  
    d) Transport layer  
    Answer: a  
    Explanation: Datagram switching is normally done at network layer.
74. Packets in datagram switching are referred to as  
    a) Switches  
    b) Segments  
    c) Datagrams  
    d) Data-packets  
    Answer: c  
    Explanation: As the name suggests, in datagram switching packets are called as datagrams.
75. Datagram networks mainly refers to  
    a) Connection oriented networks  
    b) Connection less networks  
    c) Telephone networks  
    d) Internetwork  
    Answer: b  
    Explanation: The switch does not keep the information about the connection state, hence it is connection less.
76. Datagrams are routed to their destinations with the help of  
    a) Switch table  
    b) Segments table  
    c) Datagram table  
    d) Routing table  
    Answer: c  
    Explanation: Routing table is used to route the packets to their destinations.
77. The main contents of the routing table in datagram networks are  
    a) Source and Destination address  
    b) Destination address and Output port  
    c) Source address and Output port  
    d) Input port and Output port  
    Answer: b  
    Explanation: Routing table contains destination address and output port to route the packets to their destinations.
78. Which of the following remains same in the header of the packet in a datagram network during the entire journey of the packet?  
    a) Destination address  
    b) Source address  
    c) Checksum  
    d) Padding  
    Answer: a  
    Explanation: Destination address remains same in the header during the entire journey of the packet.
79. Which of the following is true with respect to the delay in datagram networks?  
    a) Delay is greater than in a virtual circuit network  
    b) Each packet may experience a wait at a switch  
    c) Delay is not uniform for the packets of a message  
    d) All of the mentioned  
    Answer: d  
    Explanation: All the options are true with respect to the delay in datagram networks.
80. During datagram switching, the packets are placed in \_\_\_\_\_\_\_\_\_\_ to wait until the given transmission line becomes available.  
    a) Stack  
    b) Queue  
    c) Hash  
    d) Routing table  
    Answer: b  
    Explanation: Packets are stored in queue during delay and are served as first in first out.
81. The probability of the error in a transmitted block \_\_\_\_\_\_\_\_\_ with the length of the block  
    a) Remains same  
    b) Decreases  
    c) Increases  
    d) None of the mentioned  
    Answer: c  
    Explanation: Probability of the error in a transmitted block increases with the length of the block.
82. Which of the following is true with respect to the datagram networks?  
    a) Number of flows of packets are not limited  
    b) Packets may not be in order at the destination  
    c) Path is not reserved  
    d) All of the mentioned  
    Answer: d  
    Explanation: All are the facts with respect to the datagram networks.
83. Which type of Ethernet framing is used for TCP/IP and DEC net?  
    a) Ethernet 802.3  
    b) Ethernet 802.2  
    c) Ethernet II  
    d) Ethernet SNAP  
    Answer: c  
    Explanation: Ethernet 802.3 is used with NetWare versions 2 through 3.11, Ethernet 802.2 is used withNetWare 3.12 and later plus OSI routing, Ethernet II is used with TCP/IP and DEC net,and Ethernet SNAP is used with TCP/IP and AppleTalk.
84. You are a system administrator on a NetWare network, you are runningNetWare 4.11 and you cannot communicate with your router. What is the likelyproblem?  
    a) NetWare 4.11 defaults to 802.2 encapsulation  
    b) NetWare 4.11 defaults to 802.3 encapsulation  
    c) Cisco routers only work with NetWare 3.11  
    d) NetWare 3.11 defaults to 802.2 encapsulation  
    Answer: a  
    Explanation: The default encapsulation on Cisco routers is Novell Ethernet\_802.3 and NetWare 3.12and later defaults to 802.2 encapsulation, 3.11 and earlier defaults to 802.3.
85. NetWare IPX addressing uses a network number and a node number. Which statement is not true?  
    a) The network address is administratively assigned and can be up to 16 hexadecimal digits long  
    b) The node address is always administratively assigned  
    c) The node address is usually the MAC address  
    d) If the MAC address is used as the node address, then IPX eliminates the use of ARP  
    Answer: b  
    Explanation: The network address can be up to 16 hexadecimal digits in length. The node number is 12hexadecimal digits. The node address is usually the MAC address. An example IPXaddress is 4a1d.0000.0c56.de33. The network part is 4a1d. The node part is0000.0c56.de33. The network number is assigned by the system administrator of theNovell network.
86. Which NetWare protocol works on layer 3–network layer—of the OSI model?  
    a) IPX  
    b) NCP  
    c) SPX  
    d) NetBIOS  
    Answer: a  
    Explanation: IPX (Internetwork Packet Exchange) is a NetWare network layer 3 protocol used fortransferring information on LANs.
87. Which NetWare protocol provides link-state routing?  
    a) NLSP  
    b) RIP  
    c) SAP  
    d) NCP  
    Answer: a  
    Explanation: NetWare Link Services Protocol (NLSP) provides link-state routing. SAP (Service Advertisement Protocol) advertises network services. NCP (NetWare Core Protocol)provides client-to-server connections and applications. RIP is a distance vector routingprotocol.
88. As a system administrator, you want to debug IGRP but are worried that the  
    “debug IP IGRP transaction” command will flood the console. What is the command  
    that you should use?  
    a) Debug IP IGRP event  
    b) Debug IP IGRP-events  
    c) Debug IP IGRP summary  
    d) Debug IP IGRP events  
    Answer: d  
    Explanation: The “debug IP IGRP events” is used to only display a summary of IGRP routing information. You can append an IP address onto either command to see only the IGRP  
    updates from a neighbor.
89. What does the following series of commands accomplish? RouterIGRP 71 network  
    10.0.0.0 router IGRP 109 network 172.68.7.0  
    a) It isolates networks 10.0.0.0 and 172.68.7.0  
    b) It loads IGRP for networks 109 and 71  
    c) It disables RIP  
    d) It disables all routing protocols  
    Answer: a  
    Explanation: It isolates network 10.0.0.0 and 172.68.7.0 and associates autonomous systems 109 and71 with IGRP. IGRP does not disable RIP, both can be used at the same time.
90. The “IPX delay number” command will allow an administrator to change the  
    default settings. What are the default settings?  
    a) For LAN interfaces, one tick; for WAN interfaces, six ticks  
    b) For LAN interfaces, six ticks; for WAN interfaces, one tick  
    c) For LAN interfaces, zero ticks; for WAN interfaces, five ticks  
    d) For LAN interfaces, five ticks; for WAN interfaces, zero Ticks  
    Answer: a  
    Explanation: The default is–for LAN interfaces, one tick; for WAN interfaces, six ticks
91. As a system administrator, you need to set up one Ethernet interface on the Cisco  
    router to allow for both sap and Novell-ether encapsulations. Which set of  
    commands will accomplish this?  
    a) Interface Ethernet 0.1 IPX encapsulation Novell-ether IPX network 9e interface  
    Ethernet 0.2 IPX network 6c  
    b) Interface Ethernet 0 IPX encapsulation Novell-ether IPX network 9e interface  
    Ethernet 0 IPX encapsulation sap IPX network 6c  
    c) Interface Ethernet 0.1 IPX encapsulation Novell-ether interface Ethernet 0.2 IPX  
    encapsulation sap  
    d) Interface Ethernet 0.1ipx encapsulation Novell-ether IPX network 9e interface  
    Ethernet 0.2 IPX encapsulation sap IPX network 6c  
    Answer: d  
    Explanation: The following commands setup the sub interfaces to allow for two types of encapsulation:interface Ethernet 0.1 IPX encapsulation Novell-ether IPX network 9e interface Ethernet0.2 IPX encapsulation sap IPX network 6c.
92. What does the “IPX maximum-paths 2” command accomplish?  
    a) It enables load sharing on 2 paths if the paths are equal metric paths  
    b) It sets up routing to go to network 2  
    c) It is the default for Cisco IPX load sharing  
    d) It enables load sharing on 2 paths if the paths are unequal metric paths  
    Answer: a  
    Explanation: It enables load sharing on 2 paths if the paths are equal metric paths. The default is 1 pathand the maximum is 512 paths.
93. . You want to enable both arpa and snap encapsulation on one router interface.  
    How do you do this?  
    a) The interface can handle multiple encapsulation types with no extra configuration  
    b) Assign two network numbers, one for each encapsulation type  
    c) Enable Novell-ether to run multiple encapsulation types  
    d) Both arpa and snap are enabled by default so you don’t have to configure anything  
    Answer: b  
    Explanation: To assign multiple network numbers, you usually use sub interfaces. A sample configuration follows: IPXEthernet 0.1 IPX encapsulation novell-ether ipx network 9e interface ethernet 0.2 ipx encapsulation sap ipx network 6c
94. By default, Cisco routers forward GNS SAPs to remote networks.  
    a) False  
    b) True  
    Answer: a  
    Explanation: GNS is Novell’s protocol to Get Nearest Server. If there is a server on the local network,that server will respond. If there isn’t, the Cisco router has to be configured to forward theGNS SAP.