

Assignment-3

(Network layer: Routing protocols)

- Q 1. What is a Firewall in Computer Network?
- The physical boundary of Network
 - An operating System of Computer Network
 - A system designed to prevent unauthorized access
 - A web browsing Software
- Q 2. DHCP is the abbreviation of
- Dynamic Host Control Protocol
 - Dynamic Host Configuration Protocol
 - Dynamic Hyper Control Protocol
 - Dynamic Hyper Configuration Protocol
- Q 3. IPV4 Address is
- 8 bit
 - 16 bit
 - 32 bit
 - 64 bit
- Q 4. DNS is the abbreviation of
- Dynamic Name System
 - Dynamic Network System
 - Domain Name System
 - Domain Network Service
- Q 5. Router operates in which layer of OSI Reference Model?
- Layer 1 (Physical Layer)
 - Layer 3 (Network Layer)
 - Layer 4 (Transport Layer)
 - Layer 7 (Application Layer)
- Q 6. Each IP packet must contain
- Only Source address
 - Only Destination address
 - Source and Destination address
 - Source or Destination address
- Q 7. Which of the following IP address class is Multicast
- Class A
 - Class B
 - Class C
 - Class D
- Q 8. Which of the following is correct regarding Class B Address of IP address
- Network bit – 14, Host bit – 16
 - Network bit – 16, Host bit – 14
 - Network bit – 18, Host bit – 16
 - Network bit – 12, Host bit – 14
- Q 9. The last address of IP address represents
- Unicast address
 - Network address
 - Broadcast address
 - None of above
- Q 10. Why IP Protocol is considered as unreliable?
- A packet may be lost
 - Packets may arrive out of order
 - Duplicate packets may be generated
 - All of the above

- Q 11. What is the minimum header size of an IP packet?
- 16 bytes
 - 10 bytes
 - 20 bytes
 - 32 bytes
- Q 12. What is the address size of IPv6 ?
- 32 bit
 - 64 bit
 - 128 bit
 - 256 bit
- Q 13. What is the size of Network bits & Host bits of Class A of IP address?
- Network bits 7, Host bits 24
 - Network bits 8, Host bits 24
 - Network bits 7, Host bits 23
 - Network bits 8, Host bits 23
- Q 14. What does Router do in a network?
- Forwards a packet to all outgoing links
 - Forwards a packet to the next free outgoing link
 - Determines on which outgoing link a packet is to be forwarded
 - Forwards a packet to all outgoing links except the originated link
- Q 15. The Internet is an example of
- Cell switched network
 - Circuit switched network
 - Packet switched network
 - All of above
- Q 16. What is the uses of subnetting?
- It divides one large network into several smaller ones
 - It divides network into network classes
 - It speeds up the speed of network
 - None of above
- Q 17. What is the use of Ping command?
- To test a device on the network is reachable
 - To test a hard disk fault
 - To test a bug in a Application
 - To test a Pinter Quality
- Q 18. Routing tables of a router keeps track of
- MAC Address Assignments
 - Port Assignments to network devices
 - Distribute IP address to network devices
 - Routes to use for forwarding data to its destination
- Q 19. What is the maximum header size of an IP packet?
- 32 bytes
 - 64 bytes
 - 30 bytes
 - 60 bytes
- Q 20. What do you mean by broadcasting in Networking?
- It means addressing a packet to all machine
 - It means addressing a packet to some machine
 - It means addressing a packet to a particular machine
 - It means addressing a packet to except a particular machine

Short Answer Questions

- Q 1. What are the main features of Internet Architecture?
- Q 2. Define IP. Draw the IP header with proper labels.
- Q 3. What is classful addressing used by IP protocol?
- Q 4. Define subnetting. What is the network address in a class A subnet with the IP address of one of the hosts as 25.34.12.56 and mask 255.255.0.0?
- Q 5. What is routing and explain the distance vector routing algorithm?
- Q 6. Can you explain how good and bad news propagate in a network?