

IT Networking 300 Questions with Answers – By Durgesh StudyHub

- **Which device is used to connect multiple networks together?**

- a) Hub
- b) Switch
- c) Router
- d) Bridge

☒ **Answer:** c) Router

- **Which layer of the OSI model deals with routing?**

- a) Data Link Layer
- b) Network Layer
- c) Transport Layer
- d) Session Layer

☒ **Answer:** b) Network Layer

- **What does IP stand for?**

- a) Internet Provider
- b) Internet Protocol
- c) Internal Program
- d) Internet Process

☒ **Answer:** b) Internet Protocol

- **Which protocol is used to send email?**

- a) FTP
- b) SMTP
- c) SNMP
- d) HTTP

☒ **Answer:** b) SMTP

- **Which protocol is used to transfer files?**

- a) FTP
- b) DNS
- c) HTTP
- d) IMAP

☒ **Answer:** a) FTP

- **Which device works on the Data Link layer?**

- a) Switch
- b) Router
- c) Gateway
- d) Repeater

☒ **Answer:** a) Switch

• **What is the default port number of HTTP?**

- a) 20
- b) 21
- c) 25
- d) 80

☒ **Answer:** d) 80

• **Which protocol converts domain names to IP addresses?**

- a) DHCP
- b) DNS
- c) SMTP
- d) SNMP

☒ **Answer:** b) DNS

• **Which IP address class provides the most host addresses?**

- a) Class A
- b) Class B
- c) Class C
- d) Class D

☒ **Answer:** a) Class A

• **Which topology has a central hub?**

- a) Mesh
- b) Star
- c) Bus
- d) Ring

☒ **Answer:** b) Star

• **Which device amplifies the signal in a network?**

- a) Switch
- b) Router
- c) Repeater
- d) Bridge

☒ **Answer:** c) Repeater

• **Which IP version uses 128-bit addresses?**

- a) IPv4
- b) IPv5
- c) IPv6
- d) IPv3

☒ **Answer:** c) IPv6

• **What is the main function of ARP?**

- a) To resolve MAC address
- b) To resolve IP address
- c) To establish connections
- d) To route packets

☒ **Answer:** a) To resolve MAC address

• **What is the function of DHCP?**

- a) Assigns IP addresses automatically
- b) Transmits emails
- c) Encrypts data
- d) Manages routing

☒ **Answer:** a) Assigns IP addresses automatically

• **Which of the following is a private IP address?**

- a) 8.8.8.8
- b) 192.168.0.1
- c) 172.32.5.4
- d) 11.0.0.1

☒ **Answer:** b) 192.168.0.1

• **Which layer ensures reliable delivery of data?**

- a) Application
- b) Transport
- c) Network
- d) Physical

☒ **Answer:** b) Transport

• **Which of these is a connectionless protocol?**

- a) TCP
- b) UDP
- c) FTP
- d) SMTP

☒ **Answer:** b) UDP

• **Which layer of OSI is responsible for encryption?**

- a) Network
- b) Session
- c) Presentation
- d) Application

☒ **Answer:** c) Presentation

• **Which network topology has all nodes connected to every other node?**

- a) Star
- b) Mesh
- c) Bus
- d) Ring

☒ **Answer:** b) Mesh

• **Which protocol is used for secure web browsing?**

- a) HTTP
- b) HTTPS
- c) FTP
- d) TELNET

☒ **Answer:** b) HTTPS

• **Which device operates on all seven layers of the OSI model?**

- a) Hub
- b) Router
- c) Gateway
- d) Switch

☒ **Answer:** c) Gateway

• **Which topology uses a single backbone cable?**

- a) Star
- b) Bus
- c) Ring
- d) Mesh

☒ **Answer:** b) Bus

• **Which network type covers the smallest geographical area?**

- a) WAN
- b) MAN
- c) LAN
- d) PAN

☒ **Answer:** d) PAN

• **Which of the following is a Layer 3 device?**

- a) Switch
- b) Bridge
- c) Router
- d) Hub

☒ **Answer:** c) Router

• **What does MAC stand for?**

- a) Media Access Control
- b) Machine Access Code
- c) Media Authentication Control
- d) Main Access Channel

☒ **Answer:** a) Media Access Control

• **Which protocol is used for remote login?**

- a) HTTP
- b) FTP
- c) TELNET
- d) SMTP

☒ **Answer:** c) TELNET

• **Which protocol replaces TELNET for secure login?**

- a) SSH
- b) SNMP
- c) POP3
- d) SFTP

☒ **Answer:** a) SSH

• **Which protocol is used by web browsers to fetch data?**

- a) SMTP
- b) HTTP
- c) FTP
- d) SNMP

☒ **Answer:** b) HTTP

• **Which layer is responsible for physical addressing?**

- a) Network
- b) Data Link
- c) Transport
- d) Application

☒ **Answer:** b) Data Link

• **What is the range of Class B IP addresses?**

- a) 1.0.0.0 – 126.255.255.255
- b) 128.0.0.0 – 191.255.255.255
- c) 192.0.0.0 – 223.255.255.255
- d) 224.0.0.0 – 239.255.255.255

☒ **Answer:** b) 128.0.0.0 – 191.255.255.255

• **Which protocol is used for error reporting in IP?**

- a) ICMP
- b) ARP
- c) DNS
- d) DHCP

☒ **Answer:** a) ICMP

• **Which of the following is a wireless security protocol?**

- a) WEP
- b) TCP
- c) FTP
- d) IP

☒ **Answer:** a) WEP

• **Which command is used to test network connectivity?**

- a) ipconfig
- b) ping
- c) nslookup
- d) traceroute

☒ **Answer:** b) ping

• **Which protocol is used to retrieve email messages?**

- a) SMTP
- b) POP3
- c) FTP
- d) SNMP

☒ **Answer:** b) POP3

• **What is the default subnet mask for Class C?**

- a) 255.0.0.0
- b) 255.255.0.0
- c) 255.255.255.0
- d) 255.255.255.255

☒ **Answer:** c) 255.255.255.0

• **Which device breaks collision domains?**

- a) Hub
- b) Repeater
- c) Switch
- d) Bridge

☒ **Answer:** c) Switch

• **Which command shows IP configuration in Windows?**

- a) ipconfig
- b) netstat
- c) route
- d) ifconfig

☒ **Answer:** a) ipconfig

• **Which of the following is NOT an application layer protocol?**

- a) FTP
- b) HTTP
- c) TCP
- d) SMTP

☒ **Answer:** c) TCP

• **What is the main purpose of subnetting?**

- a) Increase collisions
- b) Divide networks for better management
- c) Reduce bandwidth
- d) Increase latency

☒ **Answer:** b) Divide networks for better management

• **Which protocol is used to automatically assign IP addresses?**

- a) DNS
- b) DHCP
- c) ARP
- d) ICMP

☒ **Answer:** b) DHCP

• **Which device connects different LANs using IP addresses?**

- a) Switch
- b) Router
- c) Bridge
- d) Hub

☒ **Answer:** b) Router

• **Which layer of the OSI model adds headers and trailers to data?**

- a) Transport Layer
- b) Data Link Layer
- c) Network Layer
- d) Application Layer

☒ **Answer:** b) Data Link Layer

• **Which of the following is a WAN technology?**

- a) Ethernet
- b) Token Ring
- c) Frame Relay
- d) Wi-Fi

☒ **Answer:** c) Frame Relay

• **What is the function of a firewall?**

- a) Encrypt data
- b) Block unauthorized access
- c) Speed up the network
- d) Store data packets

☒ **Answer:** b) Block unauthorized access

• **Which of these is a connection-oriented protocol?**

- a) UDP
- b) TCP
- c) ICMP
- d) IP

☒ **Answer:** b) TCP

• **Which device works at the Physical layer?**

- a) Repeater
- b) Switch
- c) Router
- d) Gateway

☒ **Answer:** a) Repeater

• **What is the purpose of a proxy server?**

- a) To store web pages
- b) To control access and cache web content
- c) To transmit emails
- d) To assign IP addresses

☒ **Answer:** b) To control access and cache web content

• **Which protocol provides terminal emulation over TCP/IP?**

- a) SMTP
- b) TELNET
- c) FTP
- d) SNMP

☒ **Answer:** b) TELNET

• **Which of the following is NOT a network topology?**

- a) Mesh
- b) Bus
- c) Star
- d) Cloud

☒ **Answer:** d) Cloud

• **Which layer is responsible for establishing connections?**

- a) Session Layer
- b) Network Layer
- c) Transport Layer
- d) Presentation Layer

☒ **Answer:** a) Session Layer

• **What does SNMP stand for?**

- a) Simple Network Management Protocol
- b) Secure Network Messaging Protocol
- c) Simple Node Management Program
- d) System Network Management Protocol

☒ **Answer:** a) Simple Network Management Protocol

• **Which of the following is an example of a hybrid topology?**

- a) Ring
- b) Star-Bus
- c) Bus
- d) Mesh

☒ **Answer:** b) Star-Bus

• **Which command is used to display routing tables?**

- a) route print
- b) ipconfig
- c) ping
- d) tracert

☒ **Answer:** a) route print

• **What is the maximum length of a CAT6 Ethernet cable?**

- a) 50 meters
- b) 75 meters
- c) 100 meters
- d) 150 meters

☒ **Answer:** c) 100 meters

• **Which IP class is used for multicast addresses?**

- a) Class A
- b) Class B
- c) Class C
- d) Class D

☒ **Answer:** d) Class D

• **Which protocol does HTTPS use for encryption?**

- a) SSL/TLS
- b) SSH
- c) IPSec
- d) DES

☒ **Answer:** a) SSL/TLS

• **Which type of IP address is used to identify a network interface on a local link only?**

- a) Public IP
- b) Private IP
- c) Loopback IP
- d) Link-local IP

☒ **Answer:** d) Link-local IP

• **Which layer of OSI model handles packet sequencing?**

- a) Network
- b) Data Link
- c) Transport
- d) Session

☒ **Answer:** c) Transport

• **What is the default port number of FTP?**

- a) 20 and 21
- b) 22
- c) 23
- d) 25

☒ **Answer:** a) 20 and 21

• **Which of the following tools can analyze network traffic?**

- a) Wireshark
- b) Paint
- c) Excel
- d) PowerPoint

☒ **Answer:** a) Wireshark

• **Which device divides a large network into smaller segments?**

- a) Switch
- b) Router
- c) Bridge
- d) Repeater

☒ **Answer:** c) Bridge

• **Which port is used by HTTPS?**

- a) 80
- b) 23
- c) 443
- d) 21

☒ **Answer:** c) 443

• Which of the following is not a wireless technology?

- a) Wi-Fi
- b) Bluetooth
- c) Ethernet
- d) Infrared

☒ Answer: c) Ethernet

• What does LAN stand for?

- a) Local Access Network
- b) Local Area Network
- c) Linked Area Network
- d) Line Area Network

☒ Answer: b) Local Area Network

• Which device uses IP addresses to make forwarding decisions?

- a) Router
- b) Bridge
- c) Switch
- d) Hub

☒ Answer: a) Router

• Which of the following protocols is used to securely transfer files?

- a) FTP
- b) SFTP
- c) TFTP
- d) SMTP

☒ Answer: b) SFTP

• Which of these is a Layer 2 addressing scheme?

- a) IP address
- b) MAC address
- c) Port number
- d) URL

☒ Answer: b) MAC address

• Which protocol helps to synchronize time between computers?

- a) NTP
- b) SNMP
- c) ICMP
- d) ARP

☒ Answer: a) NTP

• Which type of network connects computers within a building?

- a) WAN
- b) MAN
- c) LAN
- d) SAN

☒ Answer: c) LAN

• **Which IP address is used for loopback testing?**

- a) 0.0.0.0
- b) 127.0.0.1
- c) 192.168.1.1
- d) 255.255.255.0

☒ **Answer:** b) 127.0.0.1

• **Which cable type is most common for Ethernet networks?**

- a) Coaxial
- b) Twisted Pair
- c) Fiber Optic
- d) Serial

☒ **Answer:** b) Twisted Pair

• **Which of the following is an advantage of fiber optic cables?**

- a) Low cost
- b) High bandwidth and low signal loss
- c) Easy to install
- d) Uses electrical signals

☒ **Answer:** b) High bandwidth and low signal loss

• **Which device connects a computer to a network?**

- a) NIC
- b) Switch
- c) Router
- d) Hub

☒ **Answer:** a) NIC

• **Which command is used to check the path taken by packets?**

- a) ping
- b) tracert
- c) ipconfig
- d) route

☒ **Answer:** b) tracert

• **Which OSI layer handles compression and encryption?**

- a) Presentation
- b) Network
- c) Transport
- d) Data Link

☒ **Answer:** a) Presentation

• **What does VPN stand for?**

- a) Virtual Private Network
- b) Virtual Personal Node
- c) Verified Public Network
- d) Virtual Protocol Network

☒ **Answer:** a) Virtual Private Network

• Which of the following is a protocol used for network monitoring?

- a) SNMP
- b) FTP
- c) POP3
- d) DHCP

☒ Answer: a) SNMP

• Which layer in OSI model converts packets into frames?

- a) Transport
- b) Data Link
- c) Network
- d) Application

☒ Answer: b) Data Link

• Which of the following is a characteristic of UDP?

- a) Reliable
- b) Connectionless
- c) Error correction
- d) Ordered delivery

☒ Answer: b) Connectionless

• What is the main advantage of a star topology?

- a) Easy to troubleshoot
- b) High cost
- c) Difficult cabling
- d) Network stops if one node fails

☒ Answer: a) Easy to troubleshoot

• Which command shows all active connections on a computer?

- a) ipconfig
- b) netstat
- c) tracert
- d) nslookup

☒ Answer: b) netstat

• Which of these topologies has a token passing method?

- a) Star
- b) Ring
- c) Bus
- d) Mesh

☒ Answer: b) Ring

• Which protocol is used to fetch emails from a mail server?

- a) SMTP
- b) POP3
- c) FTP
- d) HTTP

☒ Answer: b) POP3

• **Which IP address class is used for experimental purposes?**

- a) Class A
- b) Class B
- c) Class D
- d) Class E

☒ **Answer:** d) Class E

• **Which of the following uses light signals to transmit data?**

- a) Coaxial Cable
- b) Twisted Pair
- c) Fiber Optic Cable
- d) Power Line

☒ **Answer:** c) Fiber Optic Cable

• **Which of these is a disadvantage of a bus topology?**

- a) High speed
- b) Difficult fault isolation
- c) Easy installation
- d) Central hub failure

☒ **Answer:** b) Difficult fault isolation

• **Which protocol is used to manage and share files in Windows networks?**

- a) NFS
- b) SMB
- c) FTP
- d) DNS

☒ **Answer:** b) SMB

• **What is the data unit at the Network layer called?**

- a) Frame
- b) Packet
- c) Segment
- d) Bit

☒ **Answer:** b) Packet

• **Which of these assigns IP addresses dynamically?**

- a) DNS
- b) DHCP
- c) ARP
- d) ICMP

☒ **Answer:** b) DHCP

• **Which IP version provides built-in security using IPSec?**

- a) IPv4
- b) IPv5
- c) IPv6
- d) IPv3

☒ **Answer:** c) IPv6

• **Which network device prevents data collision in a LAN?**

- a) Hub
- b) Bridge
- c) Switch
- d) Repeater

☒ **Answer:** c) Switch

• **Which layer ensures data is delivered in sequence?**

- a) Data Link Layer
- b) Network Layer
- c) Transport Layer
- d) Application Layer

☒ **Answer:** c) Transport Layer

• **Which type of cable is immune to electromagnetic interference?**

- a) Coaxial
- b) UTP
- c) Fiber Optic
- d) STP

☒ **Answer:** c) Fiber Optic

• **Which of these protocols is used for internet addressing?**

- a) TCP
- b) IP
- c) UDP
- d) ARP

☒ **Answer:** b) IP

• **Which port number does DNS use?**

- a) 21
- b) 25
- c) 53
- d) 110

☒ **Answer:** c) 53

• **Which command is used to find the IP address of a domain name?**

- a) ping
- b) nslookup
- c) route
- d) ipconfig

☒ **Answer:** b) nslookup

• **Which of these provides a secure remote connection to a network?**

- a) VPN
- b) DHCP
- c) FTP
- d) SMTP

☒ **Answer:** a) VPN

- Which of the following layers of OSI model is responsible for routing?

a) Session
b) Network
c) Presentation
d) Application

☒ Answer: b) Network

- Which of these terms refers to the smallest unit of data on a network?

a) Bit
b) Byte
c) Frame
d) Packet

☒ Answer: a) Bit

- Which layer of OSI model translates data for the application layer?

a) Presentation Layer
b) Transport Layer
c) Session Layer
d) Network Layer

☒ Answer: a) Presentation Layer

- Which routing protocol uses hop count as its metric?

a) OSPF
b) RIP
c) BGP
d) EIGRP

☒ Answer: b) RIP

- Which protocol is used for secure file transfer over SSH?

a) FTP
b) SFTP
c) TFTP
d) FTPS

☒ Answer: b) SFTP

- Which layer of OSI model is responsible for logical addressing?

a) Network
b) Data Link
c) Transport
d) Session

☒ Answer: a) Network

- Which type of IP address is 169.254.x.x?

a) Private
b) Public
c) APIPA (Automatic Private IP Address)
d) Loopback

☒ Answer: c) APIPA

• **Which command displays ARP cache entries?**

- a) arp -a
- b) netstat
- c) ipconfig
- d) tracert

☒ **Answer:** a) arp -a

• **Which of the following is a distance-vector routing protocol?**

- a) OSPF
- b) RIP
- c) IS-IS
- d) BGP

☒ **Answer:** b) RIP

• **Which type of attack floods a network with useless traffic?**

- a) Phishing
- b) DDoS
- c) Spoofing
- d) MITM

☒ **Answer:** b) DDoS

• **What is the primary goal of subnetting?**

- a) Reduce broadcast traffic
- b) Increase bandwidth
- c) Create larger networks
- d) Eliminate routers

☒ **Answer:** a) Reduce broadcast traffic

• **Which protocol is used to send error and control messages?**

- a) ICMP
- b) TCP
- c) UDP
- d) ARP

☒ **Answer:** a) ICMP

• **What is the maximum number of hosts in a /24 network?**

- a) 128
- b) 254
- c) 256
- d) 512

☒ **Answer:** b) 254

• **Which IP class supports up to 65,534 hosts?**

- a) Class A
- b) Class B
- c) Class C
- d) Class D

☒ **Answer:** b) Class B

• **Which protocol is used to securely access remote systems?**

- a) SSH
- b) TELNET
- c) FTP
- d) SNMP

☒ **Answer:** a) SSH

• **What is the size of an IPv4 address?**

- a) 32 bits
- b) 64 bits
- c) 128 bits
- d) 256 bits

☒ **Answer:** a) 32 bits

• **Which protocol is responsible for converting IP to MAC address?**

- a) ICMP
- b) ARP
- c) DNS
- d) DHCP

☒ **Answer:** b) ARP

• **What does OSPF stand for?**

- a) Open Shortest Path First
- b) Optimal Standard Path Forward
- c) Open System Path Forwarding
- d) Online Secure Path Function

☒ **Answer:** a) Open Shortest Path First

• **Which device is known as an “intelligent hub”?**

- a) Switch
- b) Bridge
- c) Repeater
- d) Router

☒ **Answer:** a) Switch

• **Which of these IPs is a broadcast address in Class C?**

- a) 192.168.10.255
- b) 192.168.10.0
- c) 192.168.10.1
- d) 192.168.10.100

☒ **Answer:** a) 192.168.10.255

• **What is the default port for SSH?**

- a) 21
- b) 22
- c) 23
- d) 25

☒ **Answer:** b) 22

• Which of the following uses store-and-forward switching?

- a) Hub
- b) Switch
- c) Bridge
- d) Router

☒ Answer: b) Switch

• What is a VLAN used for?

- a) To logically segment a LAN
- b) To connect different LANs
- c) To replace IP addresses
- d) To boost Wi-Fi range

☒ Answer: a) To logically segment a LAN

• Which of these protocols uses path vector algorithm?

- a) RIP
- b) OSPF
- c) BGP
- d) IS-IS

☒ Answer: c) BGP

• Which IP address represents localhost in IPv6?

- a) 127.0.0.1
- b) 0:0:0:0:0:0:1
- c) 255.255.255.255
- d) ::FFFF

☒ Answer: b) 0:0:0:0:0:0:1

• Which term describes the time taken for a packet to travel from source to destination?

- a) Bandwidth
- b) Latency
- c) Throughput
- d) Jitter

☒ Answer: b) Latency

• What is the purpose of NAT?

- a) To translate private IPs into public IPs
- b) To assign MAC addresses
- c) To encrypt data
- d) To monitor traffic

☒ Answer: a) To translate private IPs into public IPs

• Which layer handles segmentation of data?

- a) Network
- b) Transport
- c) Session
- d) Application

☒ Answer: b) Transport

• Which of the following is a routing protocol for IPv6?

- a) RIPng
- b) DHCPv6
- c) OSPFv3
- d) Both a and c

☒ Answer: d) Both a and c

• What is the size of an IPv6 address?

- a) 32 bits
- b) 64 bits
- c) 128 bits
- d) 256 bits

☒ Answer: c) 128 bits

• Which port number is used by TELNET?

- a) 20
- b) 22
- c) 23
- d) 25

☒ Answer: c) 23

• Which device can separate collision domains but not broadcast domains?

- a) Switch
- b) Router
- c) Bridge
- d) Repeater

☒ Answer: a) Switch

• Which OSI layer is responsible for error detection and correction?

- a) Data Link
- b) Network
- c) Transport
- d) Session

☒ Answer: a) Data Link

• Which routing protocol uses Dijkstra's algorithm?

- a) OSPF
- b) RIP
- c) BGP
- d) EIGRP

☒ Answer: a) OSPF

• Which network device connects networks with different architectures?

- a) Hub
- b) Gateway
- c) Bridge
- d) Switch

☒ Answer: b) Gateway

• **Which of these IPs is a valid private IP?**

- a) 10.1.1.5
- b) 172.35.10.1
- c) 192.0.2.1
- d) 11.11.11.11

☒ **Answer:** a) 10.1.1.5

• **What does the 'ping' command use to test connectivity?**

- a) TCP
- b) UDP
- c) ICMP
- d) ARP

☒ **Answer:** c) ICMP

• **Which routing protocol supports VLSM?**

- a) RIP v1
- b) RIP v2
- c) IGRP
- d) BGP

☒ **Answer:** b) RIP v2

• **Which technology is used in VoIP communication?**

- a) TCP
- b) UDP
- c) ICMP
- d) HTTP

☒ **Answer:** b) UDP

• **What is the range of private Class A IP addresses?**

- a) 192.168.0.0 – 192.168.255.255
- b) 10.0.0.0 – 10.255.255.255
- c) 172.16.0.0 – 172.31.255.255
- d) 11.0.0.0 – 11.255.255.255

☒ **Answer:** b) 10.0.0.0 – 10.255.255.255

• **Which OSI layer ensures end-to-end delivery of data?**

- a) Session
- b) Transport
- c) Network
- d) Data Link

☒ **Answer:** b) Transport

• **Which device connects multiple LAN segments in the same broadcast domain?**

- a) Bridge
- b) Switch
- c) Hub
- d) Router

☒ **Answer:** b) Switch

• Which protocol is used to translate domain names into IP addresses?

- a) DHCP
- b) DNS
- c) ARP
- d) ICMP

☒ Answer: b) DNS

Which of the following is NOT a type of network topology?

- a) Star
- b) Bus
- c) Ring
- d) Bridge

☒ Answer: d) Bridge

142. Which topology uses a central hub or switch?

- a) Ring
- b) Mesh
- c) Star
- d) Bus

☒ Answer: c) Star

143. What is the main function of a router?

- a) To connect networks and direct data packets
- b) To amplify signals
- c) To connect devices in a LAN
- d) To store data

☒ Answer: a) To connect networks and direct data packets

144. Which device operates at the Data Link layer (Layer 2)?

- a) Switch
- b) Router
- c) Repeater
- d) Gateway

☒ Answer: a) Switch

145. IP address 192.168.1.1 belongs to which class?

- a) Class A
- b) Class B
- c) Class C
- d) Class D

☒ Answer: c) Class C

146. The main purpose of DNS is:

- a) To assign MAC addresses
- b) To translate domain names into IP addresses
- c) To send emails
- d) To secure the network

☒ Answer: b) To translate domain names into IP addresses

147. Which of the following uses connection-oriented communication?

- a) TCP
- b) UDP
- c) ICMP
- d) IP

☒ **Answer:** a) TCP

148. The default port number for HTTP is:

- a) 20
- b) 21
- c) 80
- d) 25

☒ **Answer:** c) 80

149. The IP address 127.0.0.1 refers to:

- a) Default Gateway
- b) DNS Server
- c) Localhost
- d) Broadcast address

☒ **Answer:** c) Localhost

150. Which layer of the OSI model is responsible for encryption and compression?

- a) Transport
- b) Network
- c) Presentation
- d) Session

☒ **Answer:** c) Presentation

151. The physical address of a computer is known as:

- a) IP Address
- b) MAC Address
- c) Domain Name
- d) Port Number

☒ **Answer:** b) MAC Address

152. Which protocol is used to send email?

- a) POP3
- b) SMTP
- c) HTTP
- d) FTP

☒ **Answer:** b) SMTP

153. Which command is used to test network connectivity in Windows?

- a) connect
- b) ping
- c) path
- d) check

☒ **Answer:** b) ping

154. What does LAN stand for?

- a) Large Area Network
- b) Local Access Node
- c) Local Area Network
- d) Linked Access Network

☒ **Answer:** c) Local Area Network

155. The protocol used for secure web browsing is:

- a) HTTP
- b) HTTPS
- c) FTP
- d) TELNET

☒ **Answer:** b) HTTPS

156. The main function of a firewall is to:

- a) Speed up the internet
- b) Filter incoming and outgoing network traffic
- c) Store web pages
- d) Connect LAN and WAN

☒ **Answer:** b) Filter incoming and outgoing network traffic

157. Which of the following is NOT a wireless communication technology?

- a) Wi-Fi
- b) Bluetooth
- c) Ethernet
- d) Infrared

☒ **Answer:** c) Ethernet

158. What is the purpose of DHCP?

- a) Dynamic IP address allocation
- b) Encrypting data
- c) Managing web traffic
- d) File transfer

☒ **Answer:** a) Dynamic IP address allocation

159. Which layer of the OSI model handles error detection?

- a) Application
- b) Data Link
- c) Network
- d) Session

☒ **Answer:** b) Data Link

160. The unit used to measure network speed is:

- a) Hertz
- b) Bits per second
- c) Bytes
- d) Joules

☒ **Answer:** b) Bits per second

161. Which device connects different networks together?

- a) Hub
- b) Switch
- c) Router
- d) Repeater

☒ **Answer:** c) Router

162. What is the purpose of ARP in networking?

- a) To assign IP addresses
- b) To map IP address to MAC address
- c) To secure network communication
- d) To convert domain names

☒ **Answer:** b) To map IP address to MAC address

163. Which layer of the OSI model does IP operate on?

- a) Transport
- b) Network
- c) Data Link
- d) Physical

☒ **Answer:** b) Network

164. The 5th layer of the OSI model is:

- a) Session layer
- b) Network layer
- c) Presentation layer
- d) Transport layer

☒ **Answer:** a) Session layer

165. Which of the following is a private IP address?

- a) 172.32.0.1
- b) 10.0.0.1
- c) 8.8.8.8
- d) 192.0.2.1

☒ **Answer:** b) 10.0.0.1

166. Which network device works on all seven layers of the OSI model?

- a) Router
- b) Gateway
- c) Switch
- d) Hub

☒ **Answer:** b) Gateway

167. What does ICMP stand for?

- a) Internet Control Message Protocol
- b) Internal Connection Management Protocol
- c) Internet Communication Main Protocol
- d) Inter-Control Machine Process

☒ **Answer:** a) Internet Control Message Protocol

168. The default port for HTTPS is:

- a) 443
- b) 80
- c) 25
- d) 21

☒ **Answer:** a) 443

169. What is the maximum length of a CAT6 Ethernet cable for reliable transmission?

- a) 50 meters
- b) 100 meters
- c) 150 meters
- d) 200 meters

☒ **Answer:** b) 100 meters

170. Which of the following is an example of a point-to-point network?

- a) Internet
- b) Telephone line connection
- c) LAN
- d) MAN

☒ **Answer:** b) Telephone line connection

171. The process of dividing a network into smaller parts is called:

- a) Bridging
- b) Subnetting
- c) Switching
- d) Routing

☒ **Answer:** b) Subnetting

172. Which protocol is used to access a remote computer securely?

- a) FTP
- b) SSH
- c) TELNET
- d) SMTP

☒ **Answer:** b) SSH

173. What is the purpose of the “tracert” command?

- a) To test connectivity
- b) To trace the route taken by packets
- c) To display IP configuration
- d) To check DNS records

☒ **Answer:** b) To trace the route taken by packets

174. What type of network spans a city?

- a) LAN
- b) MAN
- c) WAN
- d) PAN

☒ **Answer:** b) MAN

175. A MAC address is how many bits long?

- a) 32 bits
- b) 48 bits
- c) 64 bits
- d) 128 bits

☒ **Answer:** b) 48 bits

176. What is the role of a switch in networking?

- a) To forward data based on MAC addresses
- b) To convert analog signals
- c) To store data packets
- d) To assign IP addresses

☒ **Answer:** a) To forward data based on MAC addresses

177. The main disadvantage of a bus topology is:

- a) Expensive
- b) Difficult to install
- c) Single point of failure at main cable
- d) Complex design

☒ **Answer:** c) Single point of failure at main cable

178. Which protocol is used to transfer files between computers?

- a) SMTP
- b) FTP
- c) SNMP
- d) ICMP

☒ **Answer:** b) FTP

179. The range of Class B IP addresses is:

- a) 1–126
- b) 128–191
- c) 192–223
- d) 224–239

☒ **Answer:** b) 128–191

180. In a ring topology, data travels in:

- a) Both directions
- b) One direction
- c) Random direction
- d) No specific direction

☒ **Answer:** b) One direction

181. Which of the following is an example of a WAN?

- a) Internet
- b) Office LAN
- c) Home Wi-Fi
- d) Bluetooth

☒ **Answer:** a) Internet

182. Which protocol is used for remote desktop access in Windows?

- a) FTP
- b) RDP
- c) SSH
- d) SNMP

☒ **Answer:** b) RDP

183. What is the function of a modem?

- a) Converts digital signals to analog and vice versa
- b) Amplifies network signals
- c) Filters network traffic
- d) Stores data packets

☒ **Answer:** a) Converts digital signals to analog and vice versa

184. Which of the following is NOT a valid IP address?

- a) 192.168.1.300
- b) 172.16.0.1
- c) 10.10.10.10
- d) 8.8.8.8

☒ **Answer:** a) 192.168.1.300

185. What type of network covers a small area such as a home or office?

- a) MAN
- b) LAN
- c) WAN
- d) SAN

☒ **Answer:** b) LAN

186. What is the full form of VPN?

- a) Virtual Private Network
- b) Visual Packet Network
- c) Virtual Personal Node
- d) Virtual Public Network

☒ **Answer:** a) Virtual Private Network

187. Which layer of the OSI model ensures reliable communication?

- a) Network
- b) Transport
- c) Session
- d) Application

☒ **Answer:** b) Transport

188. What is a default gateway?

- a) The IP address of the DNS server
- b) The device that routes traffic from a local network to other networks
- c) A firewall rule
- d) The local IP address

☒ **Answer:** b) The device that routes traffic from a local network to other networks

189. What is the main purpose of NAT (Network Address Translation)?

- a) Encrypts data packets
- b) Converts private IPs to public IPs
- c) Assigns IP addresses
- d) Filters network traffic

☒ **Answer:** b) Converts private IPs to public IPs

190. The loopback IP address is used for:

- a) Testing local network interface
- b) Remote connection
- c) DNS lookup
- d) Data transfer

☒ **Answer:** a) Testing local network interface

191. Which of the following is NOT a routing protocol?

- a) OSPF
- b) RIP
- c) BGP
- d) HTTP

☒ **Answer:** d) HTTP

192. What is the size of an IPv4 address?

- a) 32 bits
- b) 64 bits
- c) 128 bits
- d) 48 bits

☒ **Answer:** a) 32 bits

193. IPv6 address is represented in:

- a) Decimal
- b) Hexadecimal
- c) Binary
- d) Octal

☒ **Answer:** b) Hexadecimal

194. Which of the following protocols uses port 53?

- a) HTTP
- b) DNS
- c) FTP
- d) SNMP

☒ **Answer:** b) DNS

195. What is the maximum number of hosts in a Class C network?

- a) 126
- b) 254
- c) 1024
- d) 65534

☒ **Answer:** b) 254

196. Which of the following is used to dynamically assign IP addresses?

- a) DHCP
- b) DNS
- c) NAT
- d) ARP

☒ **Answer:** a) DHCP

197. Which of these topologies provides the highest redundancy?

- a) Bus
- b) Ring
- c) Mesh
- d) Star

☒ **Answer:** c) Mesh

198. Which of the following devices is used at the Physical Layer?

- a) Repeater
- b) Router
- c) Switch
- d) Bridge

☒ **Answer:** a) Repeater

199. What is the main function of SNMP?

- a) Network management and monitoring
- b) File transfer
- c) Email exchange
- d) Web hosting

☒ **Answer:** a) Network management and monitoring

200. The main purpose of the OSI model is to:

- a) Standardize network communication
- b) Increase data transfer rate
- c) Encrypt data
- d) Replace TCP/IP

☒ **Answer:** a) Standardize network communication

201. Which layer of the OSI model handles logical addressing?

- a) Network
- b) Data Link
- c) Transport
- d) Session

☒ **Answer:** a) Network

202. Which protocol is used to transfer web pages?

- a) HTTP
- b) FTP
- c) SMTP
- d) SNMP

☒ **Answer:** a) HTTP

203. What is the full form of NIC?

- a) Network Interface Card
- b) Network Internal Chip
- c) Node Internet Connector
- d) Network Identification Code

☒ **Answer:** a) Network Interface Card

204. Which device divides a network into collision domains?

- a) Switch
- b) Router
- c) Hub
- d) Repeater

☒ **Answer:** a) Switch

205. What is a broadcast address used for?

- a) Sending data to one host
- b) Sending data to all hosts in a network
- c) Sending data to the router
- d) Encrypting network data

☒ **Answer:** b) Sending data to all hosts in a network

206. Which layer ensures data is sent in sequence and error-free?

- a) Session
- b) Transport
- c) Presentation
- d) Network

☒ **Answer:** b) Transport

207. What is the function of a repeater?

- a) Strengthens a signal
- b) Stores data packets
- c) Converts analog to digital
- d) Routes data

☒ **Answer:** a) Strengthens a signal

208. What does VLAN stand for?

- a) Virtual Local Area Network
- b) Verified LAN
- c) Variable LAN
- d) Virtualized Link Access Network

☒ **Answer:** a) Virtual Local Area Network

209. Which of the following uses a token-passing access method?

- a) Ethernet
- b) Token Ring
- c) Wi-Fi
- d) DSL

☒ **Answer:** b) Token Ring

210. Which command displays your computer's IP configuration in Windows?

- a) ping
- b) ipconfig
- c) tracert
- d) arp

☒ **Answer:** b) ipconfig

211. Which of the following is NOT a networking cable type?

- a) Coaxial
- b) Fiber-optic
- c) HDMI
- d) Twisted pair

☒ **Answer:** c) HDMI

212. How many layers are there in the TCP/IP model?

- a) 5
- b) 7
- c) 4
- d) 6

☒ **Answer:** c) 4

213. The term "bandwidth" refers to:

- a) The frequency of data transmission
- b) The amount of data transmitted per second
- c) The number of connections
- d) The time delay in transmission

☒ **Answer:** b) The amount of data transmitted per second

214. What type of IP address is permanently assigned to a device?

- a) Static IP
- b) Dynamic IP
- c) Private IP
- d) Local IP

☒ **Answer:** a) Static IP

215. Which device connects multiple computers in a LAN?

- a) Switch
- b) Router
- c) Modem
- d) Firewall

☒ **Answer:** a) Switch

216. What is latency?

- a) Speed of data transfer
- b) Delay before data transfer begins
- c) Number of packets per second
- d) Network load

☒ **Answer:** b) Delay before data transfer begins

217. What does VoIP stand for?

- a) Voice over Internet Protocol
- b) Virtual Online Internet Path
- c) Video on IP
- d) Voice of Internet Program

☒ **Answer:** a) Voice over Internet Protocol

218. Which of these uses CSMA/CD access method?

- a) Ethernet
- b) Wi-Fi
- c) Bluetooth
- d) Token Ring

☒ **Answer:** a) Ethernet

219. What is the main purpose of proxy servers?

- a) To cache web pages and filter traffic
- b) To send emails
- c) To detect viruses
- d) To assign IP addresses

☒ **Answer:** a) To cache web pages and filter traffic

220. Which topology provides a dedicated connection between nodes?

- a) Mesh
- b) Star
- c) Ring
- d) Bus

☒ **Answer:** a) Mesh

221–240

221. Which of these is a wireless standard?

- a) 802.11
- b) 802.3
- c) 802.5
- d) 802.15

☒ **Answer:** a) 802.11

222. What is the main advantage of optical fiber cable?

- a) Low speed
- b) High bandwidth and low noise
- c) Easy bending
- d) Cheap installation

☒ **Answer:** b) High bandwidth and low noise

223. Which layer handles routing?

- a) Network
- b) Data Link

c) Transport

d) Session

☒ **Answer:** a) Network

224. What is the full form of SMTP?

a) Simple Mail Transfer Protocol

b) Secure Mail Transfer Protocol

c) Standard Mail Transmission Path

d) Simple Message Transmission Protocol

☒ **Answer:** a) Simple Mail Transfer Protocol

225. Which layer of OSI model deals with framing?

a) Data Link

b) Network

c) Transport

d) Physical

☒ **Answer:** a) Data Link

226. The 127.x.x.x address range is reserved for:

a) Local testing

b) DNS

c) Internet backbone

d) VPN

☒ **Answer:** a) Local testing

227. Which of the following is a valid IPv6 address?

a) 192.168.1.1

b) 2001:0db8::1

c) 255.255.255.255

d) 10.0.0.5

☒ **Answer:** b) 2001:0db8::1

228. What is the function of a bridge?

a) Connects two LAN segments

b) Converts signals

c) Routes packets

d) Filters viruses

☒ **Answer:** a) Connects two LAN segments

229. Which layer ensures session establishment between applications?

a) Session layer

b) Transport layer

c) Presentation layer

d) Network layer

☒ **Answer:** a) Session layer

230. A packet-switching network is used in:

a) Internet

b) Telephone

c) Telegraph

d) Radio

☒ **Answer:** a) Internet

231. What is MTU?

a) Maximum Transmission Unit

b) Multi Transfer Utility

c) Maximum Time Utility

d) Multiple Transmission Update

☒ **Answer:** a) Maximum Transmission Unit

232. The IEEE standard for Ethernet is:

a) 802.3

b) 802.5

c) 802.11

d) 802.2

☒ **Answer:** a) 802.3

233. Which protocol is used for network management?

a) SNMP

b) FTP

c) SMTP

d) POP3

☒ **Answer:** a) SNMP

234. The default subnet mask for Class B is:

a) 255.0.0.0

b) 255.255.0.0

c) 255.255.255.0

d) 255.255.255.255

☒ **Answer:** b) 255.255.0.0

235. A collision occurs in which type of network?

a) Shared medium

b) Point-to-point

c) Wireless

d) Token

☒ **Answer:** a) Shared medium

236. What is the main function of a gateway?

a) Connects networks with different protocols

b) Assigns IP addresses

c) Stores data packets

d) Monitors bandwidth

☒ **Answer:** a) Connects networks with different protocols

237. What does “ping” use internally?

a) ICMP

b) TCP

c) UDP

d) ARP

☒ **Answer:** a) ICMP

238. The physical layer is concerned with:

a) Transmission of raw bits

b) Routing of data

c) Logical addressing

d) Encryption

☒ **Answer:** a) Transmission of raw bits

239. What is the typical size of an Ethernet frame?

a) 64–1518 bytes

b) 32–256 bytes

c) 128–2048 bytes

d) 512–4096 bytes

☒ **Answer:** a) 64–1518 bytes

240. What is the main function of CSMA/CD?

a) Avoids data collisions

b) Encrypts data

c) Routes packets

d) Increases speed

☒ **Answer:** a) Avoids data collisions

241. Which of the following layers is responsible for path determination?

a) Network layer

b) Data Link layer

c) Transport layer

d) Session layer

☒ **Answer:** a) Network layer

242. Which of these devices operates only at the physical layer?

a) Hub

b) Switch

c) Router

d) Bridge

☒ **Answer:** a) Hub

243. The main disadvantage of mesh topology is:

a) Slow communication

b) High cost of cabling

c) Low reliability

d) Complex protocol

☒ **Answer:** b) High cost of cabling

244. Which type of address is used by switches?

a) MAC Address

b) IP Address

- c) Port Number
- d) Hostname
- ☒ **Answer:** a) MAC Address

245. Which protocol is used for secure file transfer?

- a) SFTP
- b) FTP
- c) HTTP
- d) SNMP
- ☒ **Answer:** a) SFTP

246. Which of the following assigns domain names?

- a) ICANN
- b) IEEE
- c) IANA
- d) IETF
- ☒ **Answer:** a) ICANN

247. The process of converting domain names to IP addresses is called:

- a) Resolution
- b) Translation
- c) Routing
- d) Forwarding
- ☒ **Answer:** a) Resolution

248. What is the default subnet mask of a Class A IP address?

- a) 255.0.0.0
- b) 255.255.0.0
- c) 255.255.255.0
- d) 255.255.255.252
- ☒ **Answer:** a) 255.0.0.0

249. A default gateway works at which layer?

- a) Network
- b) Data Link
- c) Transport
- d) Application
- ☒ **Answer:** a) Network

250. Which topology has a central cable connecting all nodes?

- a) Bus
- b) Ring
- c) Star
- d) Mesh
- ☒ **Answer:** a) Bus

251. The first layer of OSI model is:

- a) Physical layer
- b) Data Link layer

- c) Network layer
- d) Transport layer

☒ **Answer:** a) Physical layer

252. Which network protocol provides error detection and flow control?

- a) TCP
- b) UDP
- c) IP
- d) ICMP

☒ **Answer:** a) TCP

253. IPv4 address consists of how many octets?

- a) 4
- b) 6
- c) 8
- d) 16

☒ **Answer:** a) 4

254. The function of ARP is to:

- a) Map IP to MAC address
- b) Map MAC to IP address
- c) Assign IP address
- d) Resolve DNS

☒ **Answer:** a) Map IP to MAC address

255. Which protocol is connectionless?

- a) TCP
- b) UDP
- c) FTP
- d) SSH

☒ **Answer:** b) UDP

256. What is the maximum transmission speed of Cat5e cable?

- a) 100 Mbps
- b) 1 Gbps
- c) 10 Gbps
- d) 10 Mbps

☒ **Answer:** b) 1 Gbps

257. Which layer segments and reassembles data?

- a) Transport
- b) Network
- c) Data Link
- d) Session

☒ **Answer:** a) Transport

258. The combination of IP address and port number is called:

- a) Socket
- b) Packet

- c) Frame
- d) Segment
- ☒ **Answer:** a) Socket

259. The process of hiding internal IP addresses is called:

- a) NAT
- b) Subnetting
- c) Masking
- d) Proxying
- ☒ **Answer:** a) NAT

260. The range of Class A IP addresses is:

- a) 1–126
 - b) 128–191
 - c) 192–223
 - d) 224–239
 - ☒ **Answer:** a) 1–126
-

261–280

261. Which of the following layers handles encryption?

- a) Presentation
- b) Session
- c) Application
- d) Transport
- ☒ **Answer:** a) Presentation

262. Which protocol is used for file transfer in Windows?

- a) SMB
- b) SMTP
- c) SNMP
- d) SSH
- ☒ **Answer:** a) SMB

263. A wireless network uses which frequency bands?

- a) 2.4 GHz and 5 GHz
- b) 1.2 GHz and 3 GHz
- c) 7 GHz and 10 GHz
- d) 9 GHz and 12 GHz
- ☒ **Answer:** a) 2.4 GHz and 5 GHz

264. The “TTL” field in an IP packet is used for:

- a) Limiting packet lifetime
- b) Encryption
- c) Error checking

d) Fragmentation

☒ **Answer:** a) Limiting packet lifetime

265. A device that regenerates and amplifies signals is called:

a) Repeater

b) Hub

c) Switch

d) Router

☒ **Answer:** a) Repeater

266. The IEEE standard for Bluetooth is:

a) 802.15

b) 802.11

c) 802.3

d) 802.5

☒ **Answer:** a) 802.15

267. Which protocol provides domain-to-IP resolution?

a) DNS

b) DHCP

c) FTP

d) SNMP

☒ **Answer:** a) DNS

268. How many bits are in an IPv6 address?

a) 64

b) 128

c) 256

d) 512

☒ **Answer:** b) 128

269. The default port for FTP is:

a) 21

b) 23

c) 25

d) 80

☒ **Answer:** a) 21

270. Which device provides wireless connectivity to a wired network?

a) Access Point

b) Hub

c) Bridge

d) Switch

☒ **Answer:** a) Access Point

271. Which layer of OSI provides logical addressing?

a) Network

b) Data Link

c) Transport

d) Session

☒ **Answer:** a) Network

272. Which device filters traffic based on rules?

a) Firewall

b) Hub

c) Repeater

d) Switch

☒ **Answer:** a) Firewall

273. The smallest unit of data in networking is called:

a) Bit

b) Byte

c) Packet

d) Frame

☒ **Answer:** a) Bit

274. Which network topology provides the least cable cost?

a) Bus

b) Star

c) Ring

d) Mesh

☒ **Answer:** a) Bus

275. Which command shows the route a packet takes?

a) tracer

b) ping

c) nslookup

d) netstat

☒ **Answer:** a) tracer

276. What is the speed of Fast Ethernet?

a) 100 Mbps

b) 10 Mbps

c) 1 Gbps

d) 10 Gbps

☒ **Answer:** a) 100 Mbps

277. The device that connects LAN to WAN is:

a) Router

b) Switch

c) Hub

d) Bridge

☒ **Answer:** a) Router

278. Which protocol is used for email retrieval?

a) POP3

b) SMTP

c) HTTP

d) FTP

☒ **Answer:** a) POP3

279. Which layer defines data formats and syntax?

a) Presentation

b) Session

c) Transport

d) Network

☒ **Answer:** a) Presentation

280. The OSI model was developed by:

a) ISO

b) IEEE

c) IETF

d) W3C

☒ **Answer:** a) ISO

281–300

281. What is the function of a subnet mask?

a) Divides IP address into network and host parts

b) Encrypts IP address

c) Assigns MAC addresses

d) Converts analog to digital

☒ **Answer:** a) Divides IP address into network and host parts

282. Which command displays active network connections?

a) netstat

b) ping

c) arp

d) tracert

☒ **Answer:** a) netstat

283. Which of these is a Class D IP address used for multicasting?

a) 224.0.0.1

b) 192.168.1.1

c) 10.10.0.1

d) 172.16.1.1

☒ **Answer:** a) 224.0.0.1

284. Which protocol is used for automatic IP assignment?

a) DHCP

b) DNS

c) ICMP

d) FTP

☒ **Answer:** a) DHCP

285. Which network device operates at both Layer 2 and Layer 3?

- a) Multilayer switch
- b) Hub
- c) Repeater
- d) Bridge

☒ **Answer:** a) Multilayer switch

286. The unit for measuring bandwidth is:

- a) bps
- b) Hertz
- c) Volt
- d) Ohm

☒ **Answer:** a) bps

287. What is the default port for Telnet?

- a) 23
- b) 22
- c) 25
- d) 110

☒ **Answer:** a) 23

288. Which layer handles end-to-end communication?

- a) Transport
- b) Network
- c) Data Link
- d) Session

☒ **Answer:** a) Transport

289. The OSI layer responsible for data compression is:

- a) Presentation
- b) Session
- c) Application
- d) Network

☒ **Answer:** a) Presentation

290. Which protocol is responsible for routing packets across networks?

- a) IP
- b) TCP
- c) UDP
- d) FTP

☒ **Answer:** a) IP

291. The term "throughput" refers to:

- a) Actual data transfer rate
- b) Theoretical bandwidth
- c) Latency
- d) Network delay

☒ **Answer:** a) Actual data transfer rate

292. What does "SSID" stand for?

- a) Service Set Identifier
- b) Secure System ID
- c) Simple Signal Identifier
- d) System Security ID

☒ **Answer:** a) Service Set Identifier

293. The main function of ICMP is to:

- a) Send error and control messages
- b) Transfer files
- c) Assign IP addresses
- d) Encrypt data

☒ **Answer:** a) Send error and control messages

294. Which command is used to clear DNS cache in Windows?

- a) ipconfig /flushdns
- b) dns /reset
- c) ping /clear
- d) tracert /flush

☒ **Answer:** a) ipconfig /flushdns

295. Which wireless security protocol is most secure?

- a) WPA3
- b) WEP
- c) WPA
- d) WPA2

☒ **Answer:** a) WPA3

296. The TCP/IP model layer equivalent to OSI's Data Link + Physical layers is:

- a) Network Interface
- b) Application
- c) Internet
- d) Transport

☒ **Answer:** a) Network Interface

297. What is the range of private IP addresses for Class C?

- a) 192.168.0.0 – 192.168.255.255
- b) 172.16.0.0 – 172.31.255.255
- c) 10.0.0.0 – 10.255.255.255
- d) 169.254.0.0 – 169.254.255.255

☒ **Answer:** a) 192.168.0.0 – 192.168.255.255

298. Which organization manages IP addresses globally?

- a) IANA
- b) ISO
- c) ICANN
- d) IEEE

☒ **Answer:** a) IANA

299. Which network device can reduce network congestion using VLANs?

- a) Switch
- b) Router
- c) Hub
- d) Gateway

☒ **Answer:** a) Switch

300. The device that connects a computer to the Internet is:

- a) Modem
- b) Router
- c) Switch
- d) Bridge

☒ **Answer:** a) Modem