1. Question: Calculate the maximum number of subcarriers in a 50 MHz 5G channel with 15 kHz spacing. Options:
A) 2000
B) 3333
C) 4000
D) 5000
Answer: B
2. Question: Calculate the bandwidth of a Cat5e cable for 1 Gbps Ethernet over 100 meters.
Options:
A) 100 MHz
B) 250 MHz
C) 350 MHz
D) 500 MHz
Answer: A
3. Question: Calculate the signal loss in a 20 km multimode fiber link with 1.5 dB/km attenuation.
Options:
A) 20 dB
B) 25 dB
C) 30 dB
D) 35 dB
Answer: C
4. Question: How many physical links are required for a full mesh topology with 7 nodes?
Options:
A) 7
B) 14
C) 21
D) 28
Answer: C
5. Question: What is the typical power output of a 5G mmWave small cell?
Options:
A) 0.5–2 W
B) 2–5 W
C) 5–10 W
D) 10–20 W
Answer: A
6. Question: Calculate the maximum number of subcarriers in a 400 MHz 5G channel with 120 kHz spacing.
Options:
A) 2000
B) 2500
C) 3333
D) 4000
Answer: C
7. Question: Calculate the bandwidth of a Cat6 cable for 1 Gbps Ethernet over 100 meters.
Options:
A) 100 MHz
B) 250 MHz
C) 500 MHz
D) 600 MHz
Answer: B
8. Question: Which topology requires the least maintenance for a 5-node network?
Options:
A) Bus
B) Ring C) Mesh
D) Tree
Answer: A
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9. Question: What is the typical wavelength of a 60 GHz mmWave signal in a vacuum? Options:
A) 0.5 cm
B) 1 cm
C) 5 cm
D) 10 cm
Answer: A
10. Question: Calculate the total attenuation in a 10 km fiber optic link with 0.35 dB/km loss. Options:
A) 2.5 dB B) 3.5 dB
C) 4.5 dB
D) 5.5 dB
Answer: B
11. Question: What is the typical coverage range of a 5G small cell in a suburban area?
Options:
A) 50–100 meters
B) 100–300 meters
C) 300–500 meters
D) 500–1000 meters
Answer: B
12. Question: Calculate the maximum data rate for an 80 MHz Wi-Fi channel with 256-QAM and 1 spatial stream.
Options:
A) 400 Mbps
B) 600 Mbps
C) 800 Mbps
D) 1000 Mbps
Answer: B
13. Question: What is the typical power consumption of a 5G macro cell?
Options:
A) 1–2 kW
B) 2–5 kW
C) 5–10 kW
D) 10–20 kW
Answer: C 14. Question: Calculate the spectral efficiency of a 5G channel with 2 Gbps throughput over 200 MHz bandwidth.
Options:
A) 8 bps/Hz
B) 10 bps/Hz
C) 12 bps/Hz
D) 14 bps/Hz
Answer: B
15. Question: How many links are needed for a full mesh topology with 6 nodes?
Options:
A) 6
B) 12
C) 15
D) 30
Answer: C
16. Question: What is the maximum distance for 5 Gbps Ethernet over Cat6 cable?
Options:
A) 50 meters
B) 100 meters
C) 150 meters D) 200 meters
Answer: B

17. Question: How many links are required in a ring topology with 10 nodes?
Options:
A) 9
B) 10 C) 11
D) 20
Answer: B
18. Question: Calculate the signal loss in a 50 km fiber optic link with 0.15 dB/km loss.
Options:
A) 6.5 dB
B) 7.5 dB
C) 8.5 dB
D) 9.5 dB
Answer: B
19. Question: What is the typical range of a multimode fiber for 1 Gbps Ethernet?
Options:
A) 100 meters
B) 550 meters
C) 1 km
D) 10 km
Answer: B
20. Question: Calculate the propagation delay for a 200-meter twisted pair cable with a velocity of 1.8 × 10^8 m/s.
Options:
Α) 0.8 μs
Β) 1.11 μs
C) 1.5 µs
D) 2.0 μs
Answer: B
21. Question: Which medium is ideal for a high-speed campus backbone network over 5 km?
Options:
A) Coaxial
B) Twisted pair
C) Multi-mode fiber
D) Single-mode fiber
Answer:D
22. Question: Calculate the maximum data rate for a 20 MHz Wi-Fi channel with 64-QAM and 1 spatial stream.
Options:
A) 144 Mbps
B) 216 Mbps
C) 288 Mbps
D) 433 Mbps
Answer: A
23. Question: What is the typical indoor range of a 2.4 GHz Wi-Fi access point?
Options:
A) 10–20 meters B) 20–50 meters
C) 50–100 meters
D) 100–150 meters
Answer: C
24. Question: Calculate the signal loss in a 1 km multimode fiber link at 1300 nm with 1 dB/km attenuation.
Options:
A) 0.5 dB
B) 1.0 dB
C) 1.5 dB
D) 2.0 dB
Answer: B

33. Question: What is the typical latency for 5G in massive machine-type communications (mMTC)?
Options:
A) 1–5 ms B) 5–10 ms
C) 10–20 ms
D) 20–50 ms
Answer: C
34. Question: Calculate the signal loss in a 10 km single-mode fiber link with 0.2 dB/km attenuation.
Options:
A) 1 dB
B) 2 dB
C) 3 dB
D) 4 dB
Answer: B
35. Question: Which wireless technology operates in the 2.4 GHz band for low-power IoT devices?
Options:
A) Wi-Fi
B) Bluetooth Low Energy
C) 5G NR
D) NFC Answer: B
36. Question: Calculate the maximum data rate for a 40 MHz Wi-Fi channel with 64-QAM and 2 spatial streams.
Options:
A) 288 Mbps
B) 433 Mbps
C) 577 Mbps
D) 866 Mbps
Answer: A
37. Question: A SONET network multiplexes 4×622 Mbps streams. What is the total bandwidth?
Options:
A) 1.244 Gbps
B) 2.488 Gbps
C) 3.732 Gbps
D) 4.976 Gbps Answer: B
38. Question: A SONET frame carries 810 bytes every 125 μs. What is the data rate?
Options:
A) 51.84 Mbps
B) 103.68 Mbps
C) 55.52 Mbps
D) 207.36 Mbps
Answer: A
39. Question: A SONET frame with 9 bytes of path overhead carries 1000-byte packets. What is the overhead
percentage?
Options:
A) 0.90%
B) 1.80%
C) 2.70%
D) 3.60% Answer: A
40. Question: A SONET network multiplexes 8×155 Mbps streams. What is the total bandwidth?
Options:
A) 1.24 Gbps
B) 1.55 Gbps
C) 1.86 Gbps
D) 2.17 Gbps
Answer: A

41. Question: A virtual circuit network sends 1500-byte packets over 3 hops (5 ms/hop). What is the total setup
delay?
Options:
A) 10 ms
B) 15 ms
C) 20 ms
D) 25 ms
Answer: B
42. Question: A virtual circuit setup takes 20 ms for 1000-byte packets over a 1 Gbps link. What is the initial latency?
Options:
A) 20 ms
B) 21 ms
C) 22 ms
D) 23 ms
Answer: A
43. Question: A Frame Relay network sends 1000-byte packets with 10% overhead vs. virtual circuits. What is the
throughput?
Options:
A) 90% of max
B) 85% of max
C) 80% of max
D) 75% of max
Answer: A
44. Question: An ATM network uses 53-byte cells (5-byte header) for 1000-byte packets. What is the overhead?
Options:
A) 10.40%
B) 9.40%
C) 8.40%
D) 7.40%
Answer: A
45. Question: A 6-bit data 101101 uses even parity. What is the parity bit?
Options:
A) 0
B) 1
C) 2
D) 3
Answer: B
46. Question: A network with 100 devices splits into 4 VLANs. How many devices are in each VLAN?
Options:
A) 20
B) 25
C) 30
D) 40
Answer: B
47. Question: An MPLS VPN with 5 VRF instances routes 500 packets/s per VPN. What is the total routing table size?
Options:
A) 1000 entries
B) 1500 entries
C) 2000 entries
D) 2500 entries
Answer: D

48. Question: An MPLS network with 10 Gbps links routes 1500-byte packets. What is the max packet rate with 5% load balancing?
Options:
A) 833,333 packets/s
B) 791,667 packets/s
C) 750,000 packets/s
D) 708,333 packets/s
Answer: B
49. Question: An MPLS network carries IPv6 packets (1500 bytes) at 10 Gbps. What is the throughput with 5%
overhead?
Options:
A) 9.5 Gbps
B) 9.0 Gbps
C) 8.5 Gbps
D) 8.0 Gbps
Answer: A
50. Question: An MPLS network prioritizes 200-byte VoIP packets at 5 Mbps over 100 Mbps. What is the max VoIP
packet rate?
Options:
A) 3125 packets/s
B) 2500 packets/s
C) 2000 packets/s
D) 1500 packets/s
Answer: A
51. Question: An MPLS data center with 10 tenants routes 1000 packets/s per tenant. What is the total packet rate?
Options:
A) 5000 packets/s
B) 10,000 packets/s
C) 15,000 packets/s
D) 20,000 packets/s
Answer: B
52. Question: An MPLS network uses LSPs for 1500-byte packets at 1 Gbps. What is the packet rate per LSP (5 LSPs)?
Options:
A) 133,333 packets/s
B) 166,667 packets/s
C) 200,000 packets/s
D) 233,333 packets/s
Answer: A
53. Question: An MPLS edge router forwards 1500-byte packets at 10 Gbps. What is the packet rate after label
removal?
Options:
A) 833,333 packets/s
B) 666,667 packets/s
C) 500,000 packets/s
D) 1,000,000 packets/s
Answer: A
54. Question: An MPLS network supports IPv6 with 1500-byte packets at 10 Gbps. What is the routing table size
reduction?
Options:
A) 10%
B) 20%
C) 30%
D) 40%
Answer: B

55. Question: An MPLS network prioritizes VoIP (200 bytes) at 10 Mbps over 100 Mbps. What is the max VoIP packet
rate?
Options:
A) 6250 packets/s
B) 5000 packets/s
C) 4000 packets/s
D) 3000 packets/s
Answer: A
56. Question: A 4-bit data word uses Hamming code. How many parity bits are needed?
Options:
A) 2
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B) 3
C) 4
D) 5
Answer: B
57. Question: A 7-bit Hamming code reserves parity bits at powers of 2. What is the position of the first parity bit?
Options:
A) 1
B) 2
C) 3
D) 4
Answer: A
58. Question: A 4-bit data 1011 uses Hamming code (even parity). What is the 7-bit code?
Options:
A) 1011011
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B) 110011
C) 110111
D) 1010101
Answer: C
59. Question: A 7-bit Hamming code is received with syndrome 000. What is the error status?
Options:
A) Single-bit error
B) Double-bit error
C) No error
D) Parity error
Answer: C
60. Question: A 7-bit Hamming code 0110011 has syndrome 101. Which bit is erroneous?
Options:
A) 1st bit
B) 3rd bit
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C) 5th bit
D) 7th bit
Answer: C
61. Question: A Hamming code with 4 parity bits protects how many data bits?
Options:
A) 8
B) 11
C) 15
D) 16
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Answer: B
62. Question: A Hamming code protects 7 data bits. What is the total code length?
Options:
A) 10
B) 11
C) 12
D) 14
Answer: B
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63. Question: A Hamming code corrects how many bits in a 7-bit code?
Options:
A) 0
B) 1
C) 2
D) 3
Answer: B
64. Question: A Hamming code reserves parity bits at which positions?
Options:
A) 1, 2, 4, 8,
B) 3, 6, 9, 12,
C) Even positions
D) Odd positions
Answer: A
65. Question: A 5-bit data 10111 uses odd parity. What is the parity bit?
Options:
A) 0
B) 1
C) 2
D) 3
Answer: B
66. Question: A 2 Mbps link sends 1000-bit frames. How many frames are sent per second?
Options:
A) 1000
B) 2000
C) 3000
D) 4000
Answer: B
67. Question: A 4-bit data 1101 uses CRC polynomial 1011. What is the remainder?
Options:
A) 11
B) 100
C) 110
D) 10
Answer: A
68. Question: A 1000-bit frame uses a degree-4 CRC polynomial. How many zeros are appended?
Options:
A) 3
B) 4
C) 5
D) 6
Answer: B
69. Question: A 1500-byte frame with CRC-32 has a remainder of 0000. What is the frame size in bits?
Options:
A) 12,000
B) 12,032
C) 12,064
D) 12,096
Answer: B
70. Question: A CRC division for a 1000-bit frame uses XOR. What is the frame size after appending a 4-bit
remainder?
Options:
A) 1000 bits
B) 1004 bits
C) 1008 bits
D) 1012 bits
Answer: B

71. Question: A CRC polynomial of degree 8 is used for 1000-bit frames. What is the max burst error length detected? Options: A) 7 bits B) 8 bits C) 9 bits D) 10 bits Answer: B 72. Question: A DHCP server assigns 200 addresses in a /23 network. How many addresses remain? Options: A) 310
B) 312
C) 510
D) 512 Answer: A
73. Question: A Class B network 172.16.0.0/18 supports how many subnets and hosts per subnet?
Options:
A) 4 subnets, 16,382 hosts
B) 16 subnets, 4,094 hosts
C) 64 subnets, 1,022 hosts
D) 256 subnets, 254 hosts
Answer: B
74. Question: A Distance Vector Routing network with 5 routers has a route cost of 4. If a new link reduces it to 2,
what is the new cost?
Options: A) 2
B) 3
C) 4
D) 5
Answer: A
75. Question: An IPv4 address 192.168.10.18/28 has what broadcast address?
Options:
A) 192.168.10.15
B) 192.168.10.31
C) 192.168.10.16
D) 192.168.10.30 Answer: B
76. Question: An OSPF network doubles a link's cost from 10 to 20. If the link is in the shortest path, what is the new
path cost increase?
Options:
A) 5
B) 10
C) 15
D) 20
Answer: B
77. Question: An SDN network with a failed controller has 5 switches with 100 flow entries each. How many packets are forwarded using cached rules?
Options:
A) None
B) 100
C) 500
D) All
Answer: D

78. Question: A network uses a /22 subnet mask. How many host bits are available?
Options:
A) 8
B) 10
C) 12
D) 14
Answer: B
79. Question: A router sends an ICMP Fragmentation Needed message for a 1500-byte packet with MTU 1400. What
is the message size?
Options:
A) 28 bytes
B) 36 bytes
C) 56 bytes
D) 64 bytes
Answer: C
80. Question: An IPv6 anycast address serves 10 nodes. How many nodes receive a packet?
Options:
A) 1
B) 5
C) 10
D) All
Answer: A
81. Question: A Class C network needs 500 hosts per subnet. What is the minimum subnet mask?
Options:
A) 255.255.255.0
B) 255.255.254.0
C) 255.255.252.0
D) Not possible
Answer: D
82. Question: An OpenFlow switch with 50 flow entries has action instructions. If 10% of entries are updated in 1 ms,
how many entries are updated?
Options:
A) 5
B) 10
C) 50
D) 100 Answer: A
83. Question: A Class C network 192.168.10.0/26 supports how many subnets and hosts?
Options:
A) 4 subnets, 62 hosts
B) 8 subnets, 30 hosts
C) 16 subnets, 14 hosts
D) 32 subnets, 6 hosts
Answer: A
84. Question: A Distance Vector Routing network with 6 routers exchanges 1 KB tables every 30 s. What is the
bandwidth per router?
Options:
A) 0.267 kbps
B) 2.67 kbps
C) 26.7 kbps
D) 267 kbps
Answer: A

85. Question: An IPv6 network 2001:0db8::/32 is subnetted with /48. How many subnets are possible?
Options:
A) 256
B) 65,536
C) 512
D) 1,024
Answer: B
86. Question: An IPv4 address 192.168.1.100/24 has what network address?
Options:
A) 192.168.1.0
B) 192.168.0.0
C) 192.168.1.255
D) 192.168.1.100
Answer: A
87. Question: A router sends an ICMP Protocol Unreachable message for a 1500-byte packet. What is the message
size?
Options:
A) 28 bytes
B) 36 bytes
C) 56 bytes
D) 64 bytes
Answer: C
88. Question: An SDN application plane defines 200 policies for 5 networks. What is the total number of policies?
Options:
A) 200
B) 400
C) 1,000
D) 2,000
Answer: C
89. Question: An OSPF network sends LSAs only when a link state changes. If 100-byte LSAs are sent every 10 s, what
is the bandwidth?
Options:
A) 0.08 kbps
B) 0.8 kbps
C) 8 kbps
D) 80 kbps
Answer: B
90. Question: An IPv6 multicast address FF02::1 sends a packet. How many nodes receive it?
Options:
A) One
B) Nearest
C) All in group
D) None
Answer: C
91. Question: A /29 subnet supports how many valid hosts?
Options:
A) 6
B) 8
C) 14
D) 30
Answer: A
92. Question: A network virtualization setup uses 5 virtual networks with 100 Mbps each on a 1 Gbps link. What is
the total bandwidth?
Options:
A) 500 Mbps
B) 1 Gbps
C) 5 Gbps

D) 10 Gbps Answer: B 93. Question: A Class B network 172.16.0.0/21 supports how many subnets and hosts? Options: A) 32 subnets, 2,046 hosts B) 64 subnets, 1,022 hosts C) 128 subnets, 510 hosts D) 256 subnets, 254 hosts Answer: A 94. Question: An IPv4 address 192.168.10.130/26 has what network and broadcast addresses? Options: A) 192.168.10.128, 192.168.10.191 B) 192.168.10.0, 192.168.10.63 C) 192.168.10.64, 192.168.10.127 D) 192.168.10.128, 192.168.10.190 95. Question: A Distance Vector Routing network updates a route from cost 5 to 3 via a new link. What is the new cost? Options: A) 3 B) 4 C) 5 D) 6 Answer: A 96. Question: An IPv6 network needs 256 subnets with 65,534 hosts each. What is the prefix length? Options: A) 48 B) 56 C) 64 D) 72 97. Question: An OSPF network with 5 routers recalculates SPF after a link failure. If each router takes 40 ms, what is the total time? Options: A) 40 ms B) 80 ms C) 160 ms D) 200 ms Answer: D 98. Question: An SDN controller fails in a network with 10 switches. How many switches use cached flow entries? Options: A) 0 B) 5 C) 10 D) None Answer: C 99. Question: An IPv4 address 192.168.100.130/26 has what network, broadcast, and host count? Options: A) 192.168.100.128, 192.168.100.191, 62 hosts B) 192.168.100.0, 192.168.100.63, 62 hosts C) 192.168.100.64, 192.168.100.127, 62 hosts D) 192.168.100.128, 192.168.100.190, 63 hosts

Answer: A

100. Question: A Class C network 192.168.10.0/24 needs 6 subnets. What is the subnet mask and hosts per subnet?
Options:
A) 255.255.254, 30 hosts
B) 255.255.255.192, 62 hosts
C) 255.255.250, 14 hosts
D) 255.255.248, 6 hosts
Answer: A
101. Question: A RIP route to 10.0.0.0/24 has a metric of 16. What is the route status?
Options:
A) Reachable
B) Unreachable
C) Preferred
D) Delayed
Answer: B
102. Question: An IPv6 address FE80::1/10 is used. What is the address type?
Options:
A) Global unicast
B) Link-local
C) Multicast
D) Anycast
Answer: B 103. Question: An OSBE network with 4 routers uses handwidth based metrics. If a 10 Mbps link increases to 100.
103. Question: An OSPF network with 4 routers uses bandwidth-based metrics. If a 10 Mbps link increases to 100
Mbps, what is the new cost? Options:
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A) 1 B) 10
C) 100
D) Unchanged
Answer: A
104. Question: An SDN network programs 5 switches with 200 flow entries each at 1 ms per entry. What is the total
programming time?
Options:
A) 200 ms
B) 1,000 ms
C) 2,000 ms
D) 10,000 ms
Answer: B
105. Question: An IPv4 packet with checksum 0x1A2B has a field incremented by 1. What is the new checksum
status?
Options:
A) Valid
B) Invalid
C) Unchanged
D) Recalculated
Answer: B
106. Question: A network needs 1,000 hosts per subnet. What is the minimum subnet mask?
Options:
A) 255.255.252.0
B) 255.255.254.0
C) 255.255.255.0
D) 255.255.248.0
Answer: A
107. Question: An OpenFlow flow entry has 100-byte instructions. If 10 entries are updated, what is the total size?
Options:
A) 100 bytes
B) 1,000 bytes
C) 10,000 bytes

D) 100,000 bytes
Answer: B
108. Question: A TCP connection with a 128 KB congestion window and 16 KB MSS sends how many segments per
RTT?
Options:
A) 4
B) 8
C) 12
D) 16
Answer: B
109. Question: A 2000-byte packet is sent over a 5 Mbps link with a 15 ms propagation delay. What is the total
delay?
Options:
A) 18.2 ms
B) 18.4 ms
C) 18.6 ms
D) 18.8 ms
Answer: A
110. Question: A Go-Back-N ARQ with window size 10, 1000-byte frames, 10 Mbps link, and 20 ms RTT has what
throughput?
Options:
A) 4 Mbps
B) 5 Mbps
C) 8 Mbps
D) 10 Mbps
Answer: B
111. Question: A 1 Gbps link sends a 2500-byte packet with a 4 ms propagation delay. What is the total delay?
Options:
A) 4.020 ms
B) 4.040 ms
C) 4.060 ms
D) 4.080 ms
Answer: A
112. Question: A TCP connection starts with a 1 MSS (8 KB MSS) congestion window. After 3 RTTs in slow start, what
is the window size?
Options:
A) 16 KB
B) 32 KB
C) 64 KB
D) 128 KB
Answer: B
113. Question: A 1500-byte packet is sent over a 50 Mbps link with a 3 ms propagation delay. What is the total
delay?
Options:
A) 3.24 ms
B) 3.36 ms
C) 3.48 ms
D) 3.60 ms
Answer: A
114. Question: A TCP connection with sequence number 20000 sends 7 segments of 1000 bytes each. What is the
next segment's sequence number?
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Options:
A) 21000
B) 27000
C) 28000
D) 29000
Answer: B

115. Question: A Selective Repeat ARQ with window size 12, 1500-byte frames, and 50 Mbps link has what maximum throughput? Options: A) 25 Mbps B) 50 Mbps C) 75 Mbps D) 100 Mbps Answer: B 116. Question: A TCP connection with a 512 KB window size and 50 ms RTT has what maximum throughput in Mbps? Options: A) 81.92 Mbps B) 163.84 Mbps C) 245.76 Mbps D) 327.68 Mbps Answer: A 117. Question: A 3000-byte packet is sent over a 1 Gbps link with a 2 ms propagation delay. What is the total delay? Options: A) 2.024 ms B) 2.048 ms C) 2.072 ms D) 2.096 ms Answer: A 118. Question: A 10 MB file is sent over a 100 Mbps link with a 10 ms RTT. What is the total transmission time? Options: A) 0.810 s B) 0.820 s C) 0.830 s D) 0.840 s Answer: B 119. Question: A TCP connection with a 256 KB congestion window and 32 KB MSS sends how many segments per RTT? Options: A) 4 B) 8 C) 12 C) 12 C) 13 C) 13 C) 14 C) 15 C) 15 C) 16 C) 16 C) 17 C) 18 C) 19 C) 18 C) 19 C	
A) 25 Mbps B) 50 Mbps C) 75 Mbps D) 100 Mbps Answer: B 116. Question: A TCP connection with a 512 KB window size and 50 ms RTT has what maximum throughput in Mbps? Options: A) 81.92 Mbps B) 163.84 Mbps C) 245.76 Mbps D) 327.68 Mbps C) 327.68 Mbps Answer: A 117. Question: A 3000-byte packet is sent over a 1 Gbps link with a 2 ms propagation delay. What is the total delay? Options: A) 2.024 ms B) 2.048 ms C) 2.072 ms D) 2.096 ms Answer: A 118. Question: A 10 MB file is sent over a 100 Mbps link with a 10 ms RTT. What is the total transmission time? Options: A) 0.810 s B) 0.820 s C) 0.830 s D) 0.840 s Answer: B 119. Question: A TCP connection with a 256 KB congestion window and 32 KB MSS sends how many segments per RTT? Options: A) 4 B) 8 C) 12 D) 16 Answer: B 120. Question: A 1000-byte packet is sent over a 10 Mbps link with a 30 ms propagation delay. What is the total delay? Options: A) 3.08 ms B) 3.16 ms C) 3.24 ms D) 3.32 ms Answer: A 121. Question: A Go-Back-N ARQ with window size 8, 2000-byte frames, 20 Mbps link, and 50 ms RTT has what throughput? Options: A) 3.2 Mbps B) 6.4 Mbps C) 9.6 Mbps D) 1.2 8 Mbps C) 9.6 Mbps D) 1.2 8 Mbps	throughput?
B) 50 Mbps C) 100 Mbps Answer: B 110: Question: A TCP connection with a 512 KB window size and 50 ms RTT has what maximum throughput in Mbps? Options: A) 81:92 Mbps B) 163:84 Mbps C) 245:76 Mbps D) 327:68 Mbps Answer: A 117. Question: A 3000-byte packet is sent over a 1 Gbps link with a 2 ms propagation delay. What is the total delay? Options: A) 2.024 ms D) 2.096 ms Answer: A 118. Question: A 10 MB file is sent over a 100 Mbps link with a 10 ms RTT. What is the total transmission time? Options: A) 8.025 c D) 8.0820 s D) 0.840 s Answer: B 119. Question: A TCP connection with a 256 KB congestion window and 32 KB MSS sends how many segments per RTT? RTT? RTT? RTT? D) 10 Answer: B 119. Question: A 1000-byte packet is sent over a 10 Mbps link with a 30 ms propagation delay. What is the total delay? Options: A) 4 B) 8 C) 12 D) 16 Answer: B 120. Question: A 1000-byte packet is sent over a 10 Mbps link with a 30 ms propagation delay. What is the total delay? Options: A) 30.8 ms B) 31.6 ms C) 32.4 ms D) 33.2 ms Answer: A 121. Question: A Go-Back-N ARQ with window size 8, 2000-byte frames, 20 Mbps link, and 50 ms RTT has what throughput? Options: A) 3.1 Mbps B) 6.4 Mbps B)	Options:
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D) 100 Mbps Answer: B 116. Question: A TCP connection with a 512 KB window size and 50 ms RTT has what maximum throughput in Mbps? Options: A) 81.92 Mbps B) 163.84 Mbps C) 245.76 Mbps D) 327.68 Mbps Answer: A 117. Question: A 3000-byte packet is sent over a 1 Gbps link with a 2 ms propagation delay. What is the total delay? Options: A) 2.024 ms D) 2.096 ms Answer: A 118. Question: A 10 MB file is sent over a 100 Mbps link with a 10 ms RTT. What is the total transmission time? Options: A) 0.810 s B) 0.820 s C) 0.830 s D) 0.840 s Answer: B 119. Question: A TCP connection with a 256 KB congestion window and 32 KB MSS sends how many segments per RTT? Options: A) 4 B) 8 C) 12. Question: A 1000-byte packet is sent over a 10 Mbps link with a 30 ms propagation delay. What is the total delay? Options: A) 3.0 8 ms B) 3.16 ms C) 32.4 ms D) 33.2 ms Answer: A 12.12. Question: A Go-Back-N ARQ with window size 8, 2000-byte frames, 20 Mbps link, and 50 ms RTT has what throughput? Options: A) 3.12 Mbps B) 6.4 Mbps C) 9.6 Mbps D) 12.8 Mbps B) 6.4 Mbps C) 9.6 Mbps D) 12.8 Mbps B) 6.4 Mbps C) 9.6 Mbps D) 12.8 Mbps D) 12.8 Mbps	B) 50 Mbps
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B) 6.4 Mbps C) 9.6 Mbps D) 12.8 Mbps	Options:
B) 6.4 Mbps C) 9.6 Mbps D) 12.8 Mbps	·
D) 12.8 Mbps	
	C) 9.6 Mbps
Answer: B	D) 12.8 Mbps
	Answer: B

122. Question: A TCP connection starts with a 1 MSS (16 KB MSS) congestion window. After 2 RTTs in slow start, what is the window size?
Options:
A) 16 KB
B) 32 KB
C) 64 KB
D) 128 KB
Answer: B
123. Question: A 2000-byte packet is sent over a 100 Mbps link with a 5 ms propagation delay. What is the total
delay?
Options:
A) 5.16 ms
B) 5.32 ms
C) 5.48 ms
D) 5.64 ms
Answer: A
124. Question: A TCP connection with sequence number 25000 sends 8 segments of 500 bytes each. What is the
next segment's sequence number?
Options:
A) 26000
B) 27000
C) 29000
D) 30000
Answer: C
125. Question: A 2 Gbps link sends a 3000-byte packet with a 1 ms propagation delay. What is the total delay?
Options:
A) 1.012 ms
B) 1.024 ms
C) 1.036 ms
D) 1.048 ms
Answer: A
126. Question: A Selective Repeat ARQ with window size 15, 1000-byte frames, and 100 Mbps link has what
maximum throughput?
Options:
A) 50 Mbps
B) 75 Mbps
C) 100 Mbps
D) 150 Mbps
Answer: C
127. Question: A TCP connection with a 1 MB window size and 20 ms RTT has what maximum throughput in Mbps?
Options:
A) 400 Mbps
B) 800 Mbps
C) 1200 Mbps
D) 1600 Mbps
Answer: A
128. Question: A 4000-byte packet is sent over a 500 Mbps link with a 4 ms propagation delay. What is the total
delay?
Options:
A) 4.064 ms
B) 4.128 ms
C) 4.192 ms
D) 4.256 ms
Answer: A

129. Question: A 20 MB file is sent over a 200 Mbps link with a 5 ms one-way delay. What is the total transmission time?
Options:
A) 0.810 s
B) 0.820 s
C) 0.830 s
D) 0.840 s
Answer: B
130. Question: A TCP connection with a 512 KB congestion window and 64 KB MSS sends how many segments per
RTT?
Options:
A) 4
B) 8
C) 12
D) 16
Answer: B
131. Question: A 1500-byte packet is sent over a 20 Mbps link with a 25 ms propagation delay. What is the total
delay?
Options:
A) 25.6 ms
B) 26.2 ms
C) 26.8 ms
D) 27.4 ms
Answer: A
132. Question: A Go-Back-N ARQ with window size 9, 1500-byte frames, 50 Mbps link, and 40 ms RTT has what
throughput?
Options:
A) 10.8 Mbps
B) 13.5 Mbps
C) 16.2 Mbps
D) 18.9 Mbps
Answer: B
133. Question: A TCP connection starts with a 1 MSS (32 KB MSS) congestion window. After 3 RTTs in slow start,
what is the window size?
Options:
A) 64 KB
B) 128 KB
C) 256 KB
D) 512 KB
Answer: B
134. Question: A 2500-byte packet is sent over a 200 Mbps link with a 6 ms propagation delay. What is the total
delay?
Options:
A) 6.1 ms
B) 6.2 ms
C) 6.3 ms
D) 6.4 ms
Answer: A
135. Question: A TCP connection with sequence number 35000 sends 9 segments of 3000 bytes each. What is the
next segment's sequence number?
Options:
A) 38000
B) 41000
C) 62000
D) 65000
Answer: C

136. Question: A 1 Gbps link sends a 5000-byte packet with a 3 ms propagation delay. What is the total delay?
Options:
A) 3.04 ms
B) 3.08 ms
C) 3.12 ms
D) 3.16 ms
Answer: A
137. Question: A Selective Repeat ARQ with window size 20, 2000-byte frames, and 200 Mbps link has what
maximum throughput?
Options:
A) 100 Mbps
B) 150 Mbps
C) 200 Mbps
D) 250 Mbps
Answer: C
138. Question: A TCP connection with a 2 MB window size and 100 ms RTT has what maximum throughput in Mbps?
Options:
A) 160 Mbps
B) 320 Mbps
C) 480 Mbps
D) 640 Mbps
Answer: B
139. Question: A 5000-byte packet is sent over a 1 Gbps link with a 5 ms propagation delay. What is the total delay?
Options:
A) 5.04 ms
B) 5.08 ms
C) 5.12 ms
D) 5.16 ms
Answer: A
140. Question: A 50 MB file is sent over a 500 Mbps link with a 10 ms one-way delay. What is the total transmission
time?
Options:
A) 0.820 s
B) 0.840 s
C) 0.860 s
D) 0.880 s
Answer: B
141. Question: A TCP connection with a 1 MB congestion window and 128 KB MSS sends how many segments per
RTT?
Options:
A) 4
B) 8
C) 12
D) 16 Answer: B
142. Question: A 2000-byte packet is sent over a 10 Mbps link with a 20 ms propagation delay. What is the total
delay?
Options:
A) 20.16 ms
B) 21.32 ms
C) 22.48 ms
D) 23.64 ms
Answer: A

143. Question: A Go-Back-N ARQ with window size 15, 1000-byte frames, 100 Mbps link, and 30 ms RTT has what throughput? Options: A) 26.6 Mbps
B) 33.3 Mbps C) 40.0 Mbps D) 46.6 Mbps
Answer: B 144. Question: A TCP connection starts with a 1 MSS (128 KB MSS) congestion window. After 2 RTTs in slow start,
what is the window size?
Options:
A) 256 KB
B) 512 KB
C) 768 KB
D) 1024 KB
Answer: A
145. Question: A 3000-byte packet is sent over a 500 Mbps link with a 2 ms propagation delay. What is the total delay?
Options:
A) 2.048 ms
B) 2.096 ms
C) 2.144 ms
D) 2.192 ms
Answer: A
146. Question: A TCP connection with sequence number 40000 sends 10 segments of 4000 bytes each. What is the
next segment's sequence number?
Options:
A) 44000
B) 48000
C) 80000
D) 84000
Answer: C
147. Question: A 2 Gbps link sends a 4000-byte packet with a 5 ms propagation delay. What is the total delay?
Options:
A) 5.016 ms
B) 5.032 ms C) 5.048 ms
D) 5.064 ms
Answer: A
148. Question: A Selective Repeat ARQ with window size 25, 1500-byte frames, and 500 Mbps link has what
maximum throughput?
Options:
A) 250 Mbps
B) 375 Mbps
C) 500 Mbps
D) 625 Mbps
Answer: C
149. Question: A TCP connection with a 4 MB window size and 50 ms RTT has what maximum throughput in Mbps?
Options:
A) 640 Mbps B) 1380 Mbps
B) 1280 Mbps
C) 920 Mbps D) 2560 Mbps
D) 2560 Mbps Answer: A
Allowell A

150. Question: A 6000-byte packet is sent over a 1 Gbps link with a 1 ms propagation delay. What is the total delay?
Options:
A) 1.048 ms
B) 1.096 ms
C) 1.144 ms
D) 1.192 ms
Answer: A
151. Question: A 100 MB file is sent over a 1 Gbps link with a 5 ms one-way delay. What is the total transmission time?
Options:
A) 0.810 s
B) 0.820 s
C) 0.830 s
D) 0.840 s
Answer: B
152. Question: A firewall processes a 6000-byte packet in 0.7 ms and forwards it over a 10 Gbps link with a 4 ms
propagation delay. What is the total delay?
Options:
A) 4.3524 ms
B) 4.4048 ms
C) 4.4572 ms
D) 4.5096 ms
Answer: C
153. Question: A DoS attack sends 1000000 packets of 50 bytes each over a 200 Mbps link. What is the transmission
time?
Options:
A) 0.2 s
B) 0.25 s
C) 0.3 s
D) 0.35 s
Answer: B
154. Question: A DNS query takes 8 ms to process and involves 5 servers with a 5 ms RTT each. What is the total
query time?
Options:
A) 31 ms
B) 32 ms
C) 33 ms
D) 34 ms
Answer: C
155. Question: An SMTP server sends a 40 MB email over a 20 Tbps link with a 10 ms propagation delay. What is the
total transmission time?
Options:
A) 0.000016 s
B) 0.010016 s
C) 0.020016 s
D) 0.030016 s
Answer: B
156. Question: An FTP server transfers a 1 TB file over a 200 Tbps link with a 5 ms one-way delay. What is the total transfer time?
Options:
A) 0.04 s
B) 0.045 s
C) 0.05 s
D) 0.055 s
Answer: B

157. Question: An HTTP response of 300000 bytes is sent over a 200 Gbps link with a 1 ms propagation delay. What is the total delay?
Options:
A) 1.012 ms
B) 1.024 ms
C) 1.036 ms
D) 1.048 ms
Answer: A
158. Question: A POP3 client downloads a 7 MB email over a 10 Tbps link with a 10 ms RTT. What is the total
download time?
Options:
A) 0.0000056 s
B) 0.0100056 s
C) 0.0200056 s
D) 0.0300056 s
Answer: B
159. Question: An SNMP trap message of 1800 bytes is sent over a 50 Gbps link with a 2 ms propagation delay. What
is the total delay?
Options:
A) 2.000288 ms
B) 2.000576 ms
C) 2.000864 ms
D) 2.001152 ms
Answer: A
160. Question: A P2P client downloads a 20 TB file over a 200 Tbps link with a 6 ms one-way delay. What is the total
transfer time?
Options:
A) 0.8 s
B) 0.86 s
C) 0.92 s
D) 0.98 s
Answer: A
161. Question: A VoIP packet of 1200 bytes is sent every 20 ms over a 100 Gbps link with a 3 ms propagation delay.
What is the total delay per packet?
Options:
A) 3.000096 ms
B) 3.000192 ms C) 3.000288 ms
D) 3.000384 ms
Answer: A
162. Question: An overlay network routes a 16000-byte packet over a 20 Gbps link with a 4 ms propagation delay.
What is the total delay?
Options:
A) 4.0064 ms
B) 4.0128 ms
C) 4.0192 ms
D) 4.0256 ms
Answer: A
163. Question: An SSL connection adds 200 bytes overhead to a 4000-byte packet sent over a 500 Mbps link with a 5
ms propagation delay. What is the total delay?
Options:
A) 5.084 ms
B) 5.168 ms
C) 5.252 ms
D) 5.336 ms
Answer: B

164. Question: A firewall processes 50000 packets of 10 bytes each in 0.0012 ms per packet over a 100 Mbps link. What is the total processing time?
Options:
A) 0.05 s
B) 0.06 s
C) 0.07 s
D) 0.08 s
Answer: C
165. Question: A DoS attack sends 2000000 packets of 25 bytes each over a 200 Mbps link. What is the transmission
time?
Options:
A) 0.2 s
B) 0.25 s
C) 0.3 s
D) 0.35 s
Answer: B
166. Question: A DNS query resolves in 10 ms with a 300-byte response over a 6 ms one-way delay and 200 Mbps
link. What is the total delay?
Options:
A) 16.012 ms
B) 16.024 ms
C) 16.036 ms
D) 16.048 ms
Answer: A
167. Question: An SMTP server sends a 45 MB email over a 50 Tbps link with a 11 ms propagation delay. What is the
total transmission time?
Options:
A) 0.0000072 s
B) 0.0110072 s
C) 0.0220072 s
D) 0.0330072 s
Answer: B
168. Question: An FTP client uploads a 2 TB file over a 500 Tbps link with a 10 ms RTT. What is the total transfer
time?
Options:
A) 0.032 s
B) 0.042 s
C) 0.052 s
D) 0.062 s
Answer: B
169. Question: An HTTP request of 3000 bytes is sent over a 200 Gbps link with a 2 ms propagation delay. What is
the total delay?
Options:
A) 2.00012 ms
B) 2.00024 ms
C) 2.00036 ms
D) 2.00048 ms
Answer: A
170. Question: What is a P2P network primarily used for?
Options: A) Controllined data storage
A) Centralized data storage
B) Direct data sharing between peers
C) Email transmission D) Notwork socurity
D) Network security

Answer: B

171. Question: A POP3 client retrieves a 8 MB email over a 20 Tbps link with a 15 ms RTT. What is the total download time?
Options:
A) 0.0000032 s
B) 0.0150032 s
C) 0.0300032 s
D) 0.0450032 s
Answer: B
172. Question: An SNMP manager sends a 2000-byte query over a 100 Gbps link with a 1 ms propagation delay.
What is the total delay?
Options:
A) 1.00016 ms
B) 1.00032 ms
C) 1.00048 ms
D) 1.00064 ms
Answer: A
173. Question: A P2P network transfers a 50 TB file over a 1 Ptps link with a 5 ms one-way delay. What is the total
transfer time?
Options:
A) 0.4 s
B) 0.45 s
C) 0.5 s
D) 0.55 s
Answer: A
174. Question: A VoIP call sends 1300-byte packets every 25 ms over a 50 Gbps link with a 4 ms propagation delay.
What is the total delay per packet?
Options:
A) 4.000208 ms
B) 4.000416 ms
C) 4.000624 ms D) 4.000832 ms
Answer: A
175. Question: An overlay network processes a 17000-byte packet in 10 ms and sends it over a 100 Gbps link with a 3
ms propagation delay. What is the total delay?
Options:
A) 13.00136 ms
B) 13.00272 ms
C) 13.00408 ms
D) 13.00544 ms
Answer: A
176. Question: An SSL/TLS connection encrypts a 3000-byte packet, adding 150 bytes overhead, over a 200 Mbps link
with a 5 ms propagation delay. What is the total delay?
Options:
A) 5.126 ms
B) 5.252 ms
C) 5.378 ms
D) 5.504 ms
Answer: B
177. Question: A P2P client downloads a 100 TB file over a 2 Ptps link with a 6 ms one-way delay. What is the total
transfer time?
Options:
A) 0.4 s
B) 0.46 s
C) 0.52 s
D) 0.58 s
Answer: A

178. Question: An overlay network routes a 18000-byte packet over a 50 Gbps link with a 4 ms propagation delay.
What is the total delay?
Options:
A) 4.00288 ms
B) 4.00576 ms
C) 4.00864 ms
D) 4.01152 ms
Answer: A
179. Question: What does RTT stand for in networking?
Options:
A) Real-Time Transport
B) Round-Trip Time
C) Rapid Transfer Time
D) Remote Terminal Time
Answer: B
180. Question: A network uses a /22 subnet mask. How many host bits are available?
Options:
A) 8
B) 10
C) 12
D) 14
Answer: B