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Computer Network

Final Assignment

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**SOLUTIONS**

1. (1) **Answer:**

68000/980=69.3, So it must be separated into 70 bunches to send

68000+20\*70=69400

69400\*8/100Mbps=5.5ms

(2) **Answer:**7 times.

|  |  |  |
| --- | --- | --- |
| Destination network address | Distance | Next router |
|  | 13 | B |
|  | 8 | E |
|  | 16 | F |

1. (1) **Answer:**

1: 25. 1. 82. 0/29

2: 25. 1. 82. 8/29

3: 25. 1. 4. 0/4

(2) **Answer:**

|  |  |  |  |
| --- | --- | --- | --- |
| Website address | Subnet mask | Available host IP address | Direct broadcast address |
| 25. 1. 52.0 | 255.255.255.128 | 25.1.52.1—25.1.52.126 | 25.1.52.127 |
| 25.1.52.128 | 255.255.255.192 | 25.1.52.129—25.1.52.190 | 25.1.52.191 |
| 25.1.52.192 | 255.255.255.224 | 25.1.52.193—25.1.52.222 | 25.1.52.223 |
| 25.1.52.224 | 255.255.255.240 | 25.1.52.225—25.1.52.238 | 25.1.52.239 |
| 25.1.52.240 | 255.255.255.240 | 25.1.52.241—25.1.52.254 | 25.1.52.255 |

1. (1**) Answer:**H's IP address is 192.168.0.8 and the comparing hexadecimal documentation is c0.a8.00.08, so the source address of this IP is sent by H, which is information bundle 1, 3, 4; SYN=1 decides the foundation of a TCP association, that's , information parcels 1, 2, and 3 are used to set up a TCP association; the most brief viable information portion of Quick Ethernet is 46 bytes, and less than 46 bytes ought to be filled, so No. 3 and 5 information parcels ought to be filled.

(2) **Answer:** Information cannot be transmitted amid the foundation of a TCP association, so information is transmitted from the third information bundle. Concurring to the ack number 846B41D6-846B41C6=10H, that's , 16 bytes of application information.

(3) **Answer:** According to the number, it's determined that this packet is knowledge packet No. 5. in line with the TTL range, 40H-31H=FH implies that it passes through fifteen routers.

1. **Answer:** Artificial neural community is a research hotspot within the upward thrust of artificial intelligence. It abstracts the human brain neuron network from the angle of information processing, establishes a certain easy version, and forms special networks in step with one-of-a-kind connection methods. A neural community is composed of a massive number of nodes (or neurons) linked to every different. Each node represents a specific output feature, referred to as the excitation feature. Every connection between two nodes represents a weighted cost for the signal passing thru the relationship, that's called a weight. Artificial neural networks are used inside the fields of pattern popularity, sign processing, understanding engineering, professional structures, etc.