

4

In VC network: incoming interface, incoming VC number, outgoing interface, outgoing VC number.

In datagram network: destination address, outgoing interface.

5

a. None can be assigned.

b. there are $2^4 = 16$ combinations.

6

connection-oriented service keeps the connection state in the communicating nodes, while *connection service* keeps connection state in the routers along the path.

8

a) $(n - 1)D$

b) $(n - 1)D$

c) 0

10

11100000 00 : 0

11100000 01000000 : 1

1110000 : 2

11100001 01 : 3

otherwise : 3