

COMPITO DI RETI DI CALCOLATORI

8-9-2015

1. Per cosa è utilizzato il "sequence number" presente nell'header di un segmento TCP ?

- A. Acknowledgments
- B. Riordino degli ottetti ricevuti
- C. Scartare I segmenti duplicati
- D. Nessuna delle risposte precedenti

2. Cos'è la default route?

- A. Una sorta di rotta statica
- B. Una destinazione per qualunque pacchetto non-routable
- C. Gateway of last resort
- D. A+B+C
- E. Nessuna delle risposte di cui sopra

3. Quando un router riceve un pacchetto, lo accetta o lo scarta esaminando cosa ?

- A. Il source MAC address del pacchetto
- B. L'indirizzo sorgente di network/node
- C. L'indirizzo della network/node di destinazione
- D. Il MAC address del next-hop

4. An organization has been assigned network ID 10.10.128.0 and subnet mask 255.255.224.0. (/19)

- A. Which IP address range can be used for this organization? 128.1- 159.254
- B. Which is the broadcast address 10.10.159.255
- C. How many point-to-point network are possible (2^{11})

5. Quali indirizzi IPv4 rappresentano dei validi host addresses? (scegliere 3)

- A. 172.16.4.127 /26
- B. 172.16.4.155/26
- C. 172.16.4.193/26
- D. 172.16.4.95 /27
- E. 172.16.4.159 /27
- F. 172.16.4.207/27

6. When the destination network is not listed in the routing table of a router, what are two possible actions that the router might take? (Choose two.)

- A. The router sends an ARP request to determine the required next hop address.

- B. The router discards the packet
- C. The router forwards the packet toward the next hop indicated in the ARP table.
- D. The router forwards the packet to the interface indicated by the source address.
- E. The router forwards the packet out the interface indicated by the default route entry.

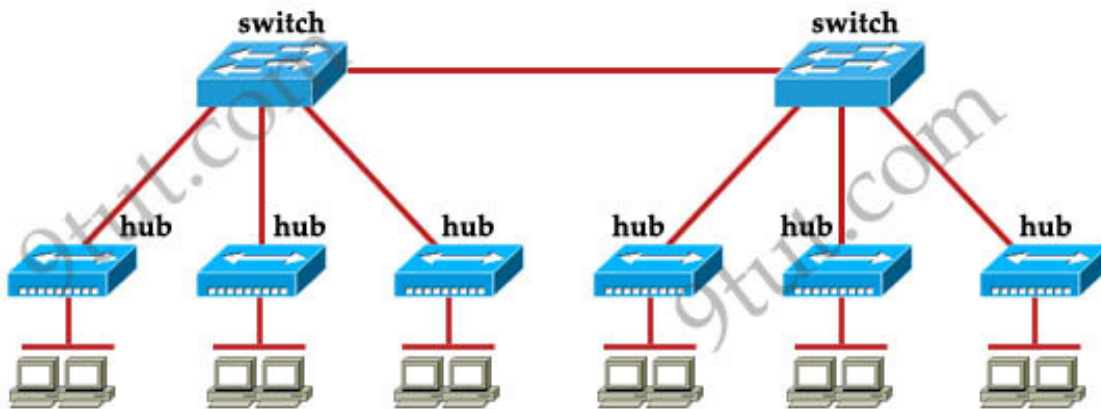
7. A router interface has been assigned an IP address of 172.16.192.166 with a mask of 255.255.255.248.

- A. To which subnet does the IP address belong? (172.106.192.160)
- B. Which is the broadcast address ? 172.16.192.167
- C. How many point-to-point network are possible ? 2

8. Perché uno switch non apprenderà mai un broadcast address?

- A. Broadcast frames are never sent to switches.
- B. Broadcast addresses use an incorrect format for the switching table.
- C. A broadcast address will never be the source address of a frame.
- D. Broadcasts only use network layer addressing.
- E. A broadcast frame is never forwarded by a switch.

9. Quanti domini di broadcast sono presenti nella rete seguente ? 1



10. Quanti domini di collisione ? 7

N.B. : ogni domanda vale 3 punti