

Addressing Tutorial Questions

Question 1

Suppose the network 193.1.1.0/24 has been divided into 8 subnets using fixed length subnetting.

- a) What is the network address of the network?
- b) What is the network address of the subnet with subnet ID 6?
- c) What is the network address of the subnet with subnet ID 0?
- d) What is the broadcast address of the subnet with subnet ID 6?

Question 2

A company was given the network block 137.73.0.0/16. The block needs to be divided into 6 subnets with the following capacities:

- a) Two large subnets with capacity for 8,000 hosts each
- b) Three smaller subnets with capacity for 4,000 hosts each
- c) A very large subnet with capacity for 20,000 addresses

Provide a division of the network block to meet the above requirements and give addresses for each one of the subnets. If there is a spare block of addresses left, please indicate so.