Factuality of computer engineering

ENCS4130

Computer network lab

Todo.1 Question 1 answer

Amal Ziad AbuHmoud_1192141

Instructor: Ismael Khater

Assistant: Ayham Hashesh

Date: 22/7/2022

Q1) The X in the given IP addresses ranges depends on your university ID (Example: 1161361) X=61 according to this ID: X=41. Network range 192.41.0.0/25.

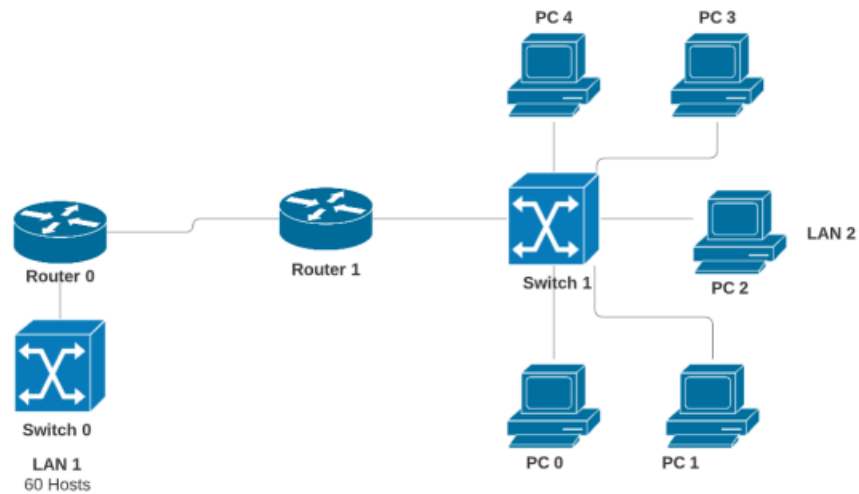Given the topology in Figure 1 and the network range 192.41

Figure 1: Question 1 Topology

a) What is the max number of hosts that the given range can cover? [1 Point]

Ans: 2^7 -2=126 hosts

b) Divide the given range to all available networks using minimum number of IPs (If the IPs are enough). Make sure to give them names on Figure 1 e.g. Net A, Net B, etc.
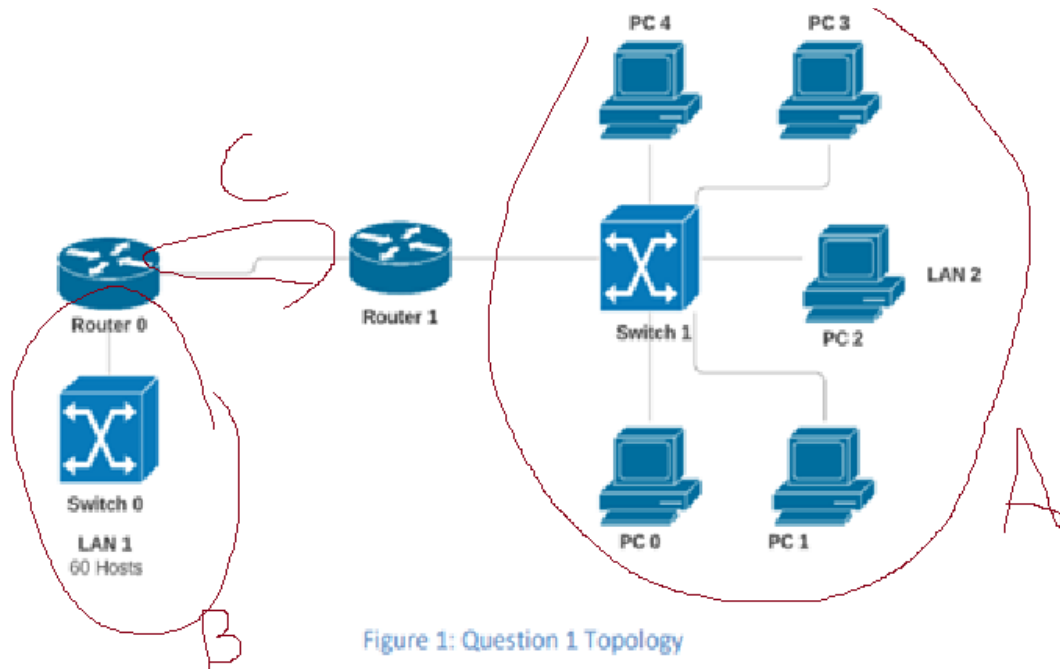

Figure 1: Question 1 Topology

Network Symbol	Network IP	Valid hosts range (start)	Valid hosts range (end)	Broadcast IP	Subnet mask
B	192.41.0.0/25	192.41.0.1	192.41.0.62	192.41.0.63	255.255.255.128
A	192.41.0.64/25	192.41.0.65	192.41.0.69	192.41.0.70	255.255.255.128
C	192.41.0.71/25	192.41.0.72	192.41.0.73	192.41.0.74	255.255.255.128