**AS441**
**ADVANCED SERVER SUPPORT 1**
**PROFESSIONAL DEGREE IN IT SUPPORT**

**Total: 30 marks**

**QUESTION:**

1. Figure 1 shows a sample network diagram with three hops and CIDR 192.168.2.0/24. Each network needed a different number of hosts. Based on Figure 1, please identify the what is VLSM and fill up the table below shown: -
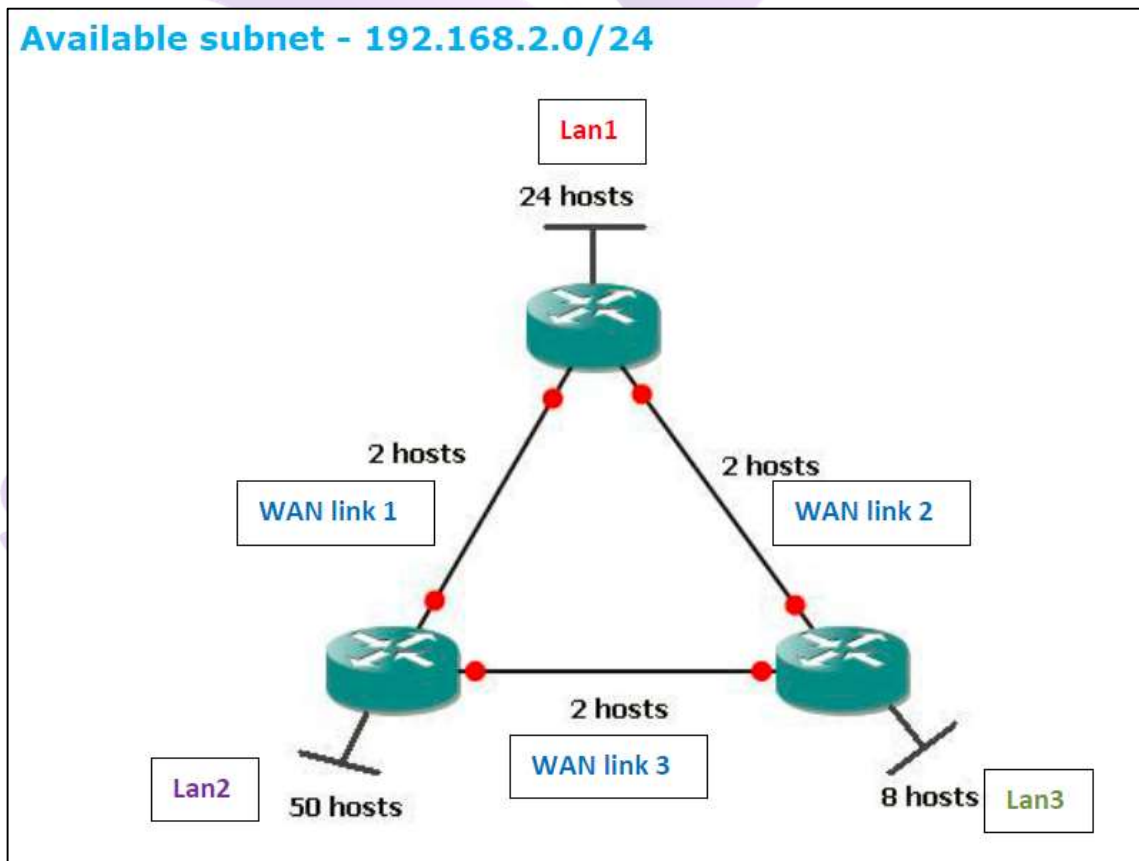


Figure 1

A. How many networks are there in Figure 1 and what was that?

B. Determine the class of this network, how many number of bits for network portion, how many number of bits for host portion, what is the default mask?

C. Order the networks from the largest size to the smallest.

D. Fill up the Table 1 according to the order of the network from question (c).

| Network Address | First Usable Address | Last Usable Address | Broadcast Address |
|---|---|---|---|
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|  |  |  |  |
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