**Solution of Tree-VLSM**

**Network I:**

1st subnet: 10.0.0.0/21 [prefix is 21 because host is 1930 so we need 2048 that is 211.

32-11is 21.

So the 8th subnet will be:

(subnet-1)\*block size=(8-1)\*8=56

network ip- 10.0.56.0/21 broadcast ip- 10.0.63.255/21 subnet mask- 255.255.248.0

**Network II:**

(subnet-1)\*block size=(5-1)\*8=32

1st subnet - 10.0.32.0/23

(subnet-1)\*block size=(6-1)\*2=10

network=32+10=42

network ip- 10.0.42.0/21 broadcast ip- 10.0.43.255/21 subnet mask- 255.255.254.0

**Network III:**

1st subnet- 10.0.44.0/26

***4th subnet :***

network ip- 10.0.44.192/26 broadcast ip- 10.0.44.254/26 subnet mask- 255.255.255.192

**Network IV:**

1st subnet- 10.0.44.0/28

(subnet-1)\*block size=(10-1)\*16=144

network ip- 10.0.44.144/26 broadcast ip- 10.0.44.159/26 subnet mask- 255.255.255.240