

**Lab Final**  
**Summer-2020**  
**CSE-412**  
**Time: 15 mins**

Assume an ISP(Internet Service Provider) is assigned an address block, and consider one of the address from that block is 10.10.XY.0/26. (Suppose, ID is 142-011-042, then XY will be 11. You have to consider your ID and as per your ID set the values of XY).

Calculate the followings:

- i) Number of subnetworks created from this ip address
- ii) Number of ip addresses residing in each subnetwork
- iii) Network address of each subnetwork
- iv) First and Last assignable ip address of each subnetwork
- v) Broadcast address of each subnetwork

Specify each step of calculation very clearly.