

CAN, USB, Ethernet

Name:

Roll No:

1. How are message collisions on CAN bus are resolved?

2. The source address of an application is 192.168.1.112 and the source subnet mask is 255.255.255.224. Determine whether the destination IP address 192.168.0.251 is in the same subnet as the source IP address. All the IP addresses follow IPv4 format.

3. Assume a 0 dominant CAN system with three nodes, A, B and C from which three messages are sent.

Frame	ID
A	10110
B	10111
C	10101

Show how is CAN arbitration performed if all nodes try to send at the same time? Which node wins? Which one backs off first? Show what happens bit-by-bit.

4. Draw the basic building blocks of USB transactions.