National University of Computer and Emerging Sciences, Lahore Campus
Quiz ……4 [BS(CS): Section D] Fall 2023

Computer Networks (Code: CS3001) **Quiz Date: Novemer 16, 2023**

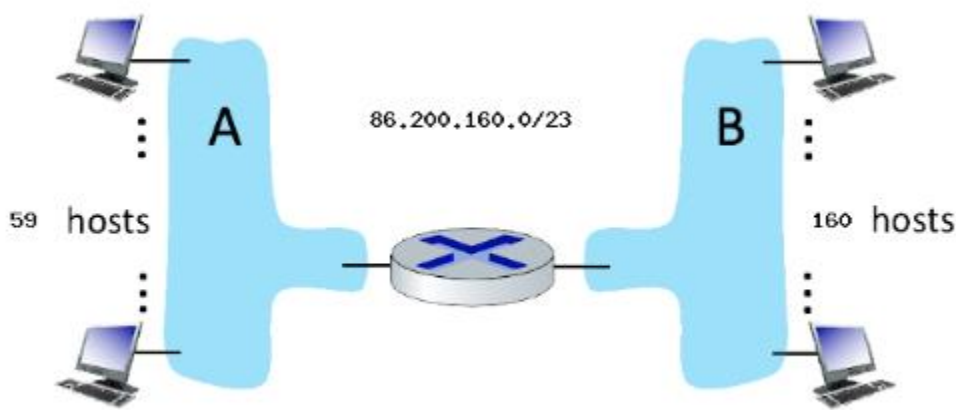**Total Marks: 10** **Duration: 20 -Minutes**

Name -- Roll #--------------------------------- Section --------

Q: Consider the router and the two attached subnets below (A and B). The number of hosts is also shown below. The subnets share the 23 high-order bits of the address space: 86.200.160.0/23.

Assign subnet addresses to each of the subnets (A and B) so that the amount of address space assigned is minimal, and at the same time leaving the largest possible contiguous address space available for assignment if a new subnet were to be added. Then answer the questions below.

1. Is the given address space public or private?

2. How many hosts can there be in this address space?

3. What is the subnet address of subnet A? (CIDR notation)

4. What is the broadcast address of subnet A?

5. What is the starting host address of subnet A?

6. What is the ending host address of subnet A?

7. What is the subnet address of subnet B? (CIDR notation)

8. What is the broadcast address of subnet B?

9. What is the starting host address of subnet B?

10. What is the ending host address of subnet B?