**COMPUTER NETWORKS**

**Task 09**

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**Submitted On: 23/11/24**

**BSSEM-F22-073-5B**

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**Question: Different Between “Sub-Netting & Super-Netting”**

Subnetting and supernetting are both networking techniques that improve network performance, manageability, and speed. The main difference between the two is that subnetting divides a network into smaller subnetworks, while supernetting combines multiple networks into one:

* **Subnetting**

Divides a large network into smaller subnetworks to make it easier to manage. Subnetting uses a variable length subnet mask (VLSM) to add bits from the host ID to the network ID of the IP address.

* **Supernetting**

Combines multiple networks into a single supernetwork to reduce the number of routes that routers need to manage. Supernetting uses classless inter-domain routing (CIDR) to add bits from the network ID to the host.

Both subnetting and supernetting use a subnetwork mask or supernet mask calculator to determine the appropriate ranges for each network segment