

**SUBJECT:** CN LAB

**TASK-9**

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Section: 5A

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**Difference between Sub-netting and Super-netting**

| **Sub-netting** | **Super-netting** |
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| Divides a single large network into smaller networks. | Combines multiple smaller networks into a larger network. |
| Optimizes network traffic, improves security, and allocates IP addresses efficiently. | Reduces the size of routing tables by combining networks for efficient routing. |
| Uses one large network IP block and divides it into smaller subnets. | Combines contiguous smaller IP blocks into a single larger block. |
| The subnet mask increases (e.g., /24 to /26). | The subnet mask decreases (e.g., /24 to /22). |
| **Example:** Dividing 192.168.1.0/24 into four subnets: 192.168.1.0/26, 192.168.1.64/26, etc. | **Example:** Combining 192.168.1.0/24 and 192.168.2.0/24 into 192.168.0.0/22. |