CS610 Assignment No.3 2021

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**Question No. 1**

Given below is a list of IP addresses, you are required to identify the class and No. of bits in prefix for each given IP address.

**Solution:**

|  |  |  |
| --- | --- | --- |
| **IP Address** | **Class** | **No. of bits in prefix** |
| 95.86.75.4 | A | 8 |
| 129.12.36.42 | B | 16 |
| 127.0.0.1 | A | 8 |
| 192.168.1.1 | C | 24 |
| 216.123.145.16 | C | 24 |

**Question No.2**

Following is a list of CIDR representations, you are required to find the No. of bits for hosts and subnet mask for each CIDR representation.

**Solution:**

|  |  |  |
| --- | --- | --- |
| **CIDR representation** | **No. of bits for host** | **Subnet mask** |
| 182.0.1.2 / 28 | 4 | 255.255.255.240 |
| 20.10.30.35 / 27 | 5 | 255.255.255.224 |
| 186.245.183.64/25 | 7 | 255.255.255.128 |
| 132.77.198.158/29 | 3 | 255.255.255.248 |
| 160.137.103.171/26 | 6 | 255.255.255.192 |

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