**Assignment #6**



**CSE 303: Data Communication and Computer Networks**

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Section: **C**

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Solve the following questions.

i. The IP address ( 10.137.12.14 ) is given whose subnet mask is 255.255.252.0

calculate the following

* network address

**Ans.** **10.137.12.14**

* first usable host address

**Ans. 10.137.12.1**

* last usable host address

**Ans. 10.137.12.254**

* broadcast address

**Ans. 10.137.15.255**

* total no. of usable address

**Ans. 1,022**

ii. write the IP address 222.1.1.20 whose subnet mask is 255.255.255.192 in CIDR notation.

**Ans. 222.1.1.20/26**

iii. Write the IP address 135.1.1.25 whose subnet mask is 255.255.248.0 in CIDR notation.

**Ans. 135..1.1.25/21**

iv. The IP address (192.168.2.4) is given whose subnet mask is 255.255.255.240

calculate the following

* network address

**Ans. 192.168.2.0**

* first usable host address

**Ans. 192.168.2.1**

* last usable host address

**Ans. 192.168.2.14**

* broadcast address

**Ans. 192.168.2.15**

* total no. of usable address

**Ans. 14**

v. Determine the CIDR notation for the IP address 172.16.0.1 with a subnet mask of

255.255.0.0.

**Ans. 172.16.0.1/16**