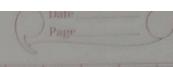IPV4 TASKS CSE1004

- ASHUTOSH ARDU
20BRS1262

1) Binary notations to dotted decimal notation

a) 10000001   00001011   00001011   11101111

→   129.11.11.239
          (239)

b) 1100 0001   1000 0011   00011011   11111111

→   193.131.27.255

2) Dotted decimal notation to binary notation :-

a) 111.56.45.78

→ 01101111   00111000   00101111   01001110

b) 221.34.7.82

→ 11011101   0010 0010   00000111   01010010

3) List out the Errors:-

a) 111.56.045.78
↳ dotted decimal notation, here only from 0-255 value are considered valid hence '045' is invalid only '45' is valid.

b) 221.34.7.8.20
↳ dotted decimal notation is a 4 bytes notation not a 5 bytes notation.

c) 75.45.301.14
↳ exceeds the limit set of each byte in dotted decimal notation which is from (0-255).

d) 11100010.23.14.67
↳ Binary notation cannot be included in dotted decimal notation both are separate and independent notations

4   Binary notation   to   Hexadecimal notation :-

a) 10000001   00001011   00001011   1110 1111

→   81 0B 0B EF

b) 11000001   10000011   00011011   11111111

→ C81 83 1B FF