Ques

MNIT IP. address = 145-75.0.0/16 Ary of

1) CSE department.

128 systems and 250 required address.

2) ECE department 128 system and 64 repuired address.

3) EFF department-648484em and 129, reguired address.

find 128 IP address of ECP.

2). IP address Available wit ISP. after this.

for CSE,

128 System & 256 address needed Address Range =

145.75.0.0-145.750127.255-

for ECE,

128 system& 64 add ress needed.

145.75.1000000.00 frestblit-

for address contain by

each withour -

- 1 Fystemal ECE

Scanned by CamScanner

145.75.10000000.01 frest 6 bit for address of each system?

+2nd system of ECE

is and so on.

145.75.10011111.11 frest 6 bit for adgress kondain by each saystem).

+128 System of ECE

means 145.75.159.192.9 for 1st address of 128 system and all 6 pst will be 0/s, 80, 11000000=192) and subject is 8+8+8+2=26

7 80, 145.75.159.192/26;

address contain by $CSE = 2^{15}$ address contain by $ECE = 2^{13}$ address contain by $EEE = 2^{13}$.

address available for ISP service provider. $= 2^{16} - 2^{15} - 2^{13} - 2^{13} = 16384$ Ans