PRACTICAL - 9

Implementation of SUBNETTING in CISCO PACKET TRACER sémulator.

classless 10 subnetting in cisco packet is a technique that allows for more efficient use of 1P addresses by allow first the default marks for each up

CREATING A NETWORK YOPOLOGY:-The first step in implementing clarker is realted a network topology in Pachet bracer.

ADDING THE DEVICE:-

The we have created our network topolo we can add devices to it. Here, we will be adding routers, switches & Pas.

To submet the network addresses of

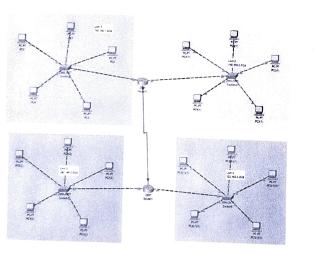
192.168.1.0124 to provide enough space

407 at heast 5 addresses for end devices,

the switch & the router, we can use a

127 submet mask. This will give us

8 submets with 30 host addresses each.



(a) Nrite down your understanding of subject It is the process of dividing a lange metwork into smaller, more managets parts called subjects It helps in organizing the network by allocating IP address as efficiently.

(b) What is the advantage of implement, submetting within a Network?

-> Efficient use of IP addresses.

- -> Improved network performance.
- -) Better security.
- -> Simple management
- -> Easier troubleshooting.
- (c) Find out whether subnetting is implemented in your college off yes, draw & list down the subnets used with 10 addresses.

subuet! : computer suence Dept Network: 192.168.10.0/24 192.168.10.1 - 192.168.10.254 Range Defaut Gateway: 192.168:10., subnet 2: Electronies Dept. Network: 192.168.20.0124 Range: 192.168.20.1-192.168.20.254. Defaut Gateway : 192.16820.1 Diagram '.-Router Dept ECE Dept USE 192.168.20.X 192.168.10.X RESULT! Thus the above experiment is executed vaccosfully.