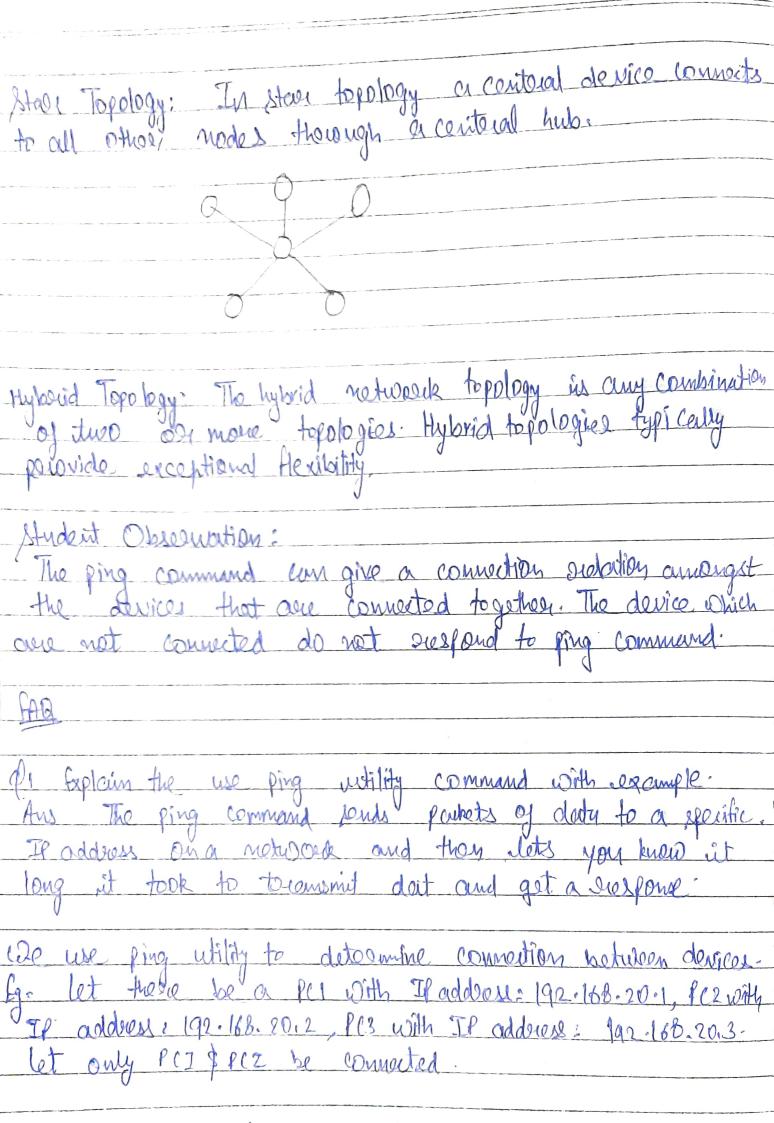
No an Road and Morting Lynnight
Name: Raghan Maheshnoovii Rolind: 53
Panel: A
Botch: 04
Lab- Assignment 1 (CN)
Tille: Design no twoodes: (Use: Parket toraces/hns)
Aim: Dosign Notwork: Dosign a simple network (LAN) with different topologies and test it using PINCs withity-
dillegent topplonies and test it using PTall with 151
The state of the s
Objective:
1. To leasen and understand concept of LANI and test it
using PING command.
2. To design a moturnale miles monitores land is
2. To design a network using various notropule topologies in cisco larket Toracog.
Theory:
1. What is LAN?
And JAN OS LOCAL ASIA MALOS IN
Ans IAN or Local Area Metwork is a group computer of
periphonal devices that are connected togethor. These devices
may be connected with a physical media of a connection loss
media within a certain geographical area. These dersical can communicate and shore resource with each other.
1000 in duided wises and a disconsider with each other.
Little us areas geographical area Correct by the
LAN is docided upon geographical area correct by the network i.e. botween stange of a few kilometers.
v

2 Réfine and explain varions motroorde topologies.
Ans Bus Topology: In bus notwork topology every nodo als Connected in series along a single cable-og. Cable Beroad band distoributions notworks.
is connected in socios above a single cable - ex cable
Beward band distributions notworks.
King Topology: In the sing notwoode topology nodes are considerated in a closed loop configuration. Date is passed in any one direction og- notoro Network based on Synchoronous optical Networks.
Connected in a closed loop configuration. Date is passed
in only one direction og- notors returned based on
Synchoranous optical Networks
V
0
Mesh lopology: The mesh topology links made with connection
So that multiple paths botiloon modes/devices meshing mul-
tiple paths increased sosilioney but also increases cast.
Mesh Topology: The mesh topology links made with connection so that multiple paths bothoon modes/devices meshing multiple paths increased oresiliency but also increases cost. More space is needed joy dedicated links.

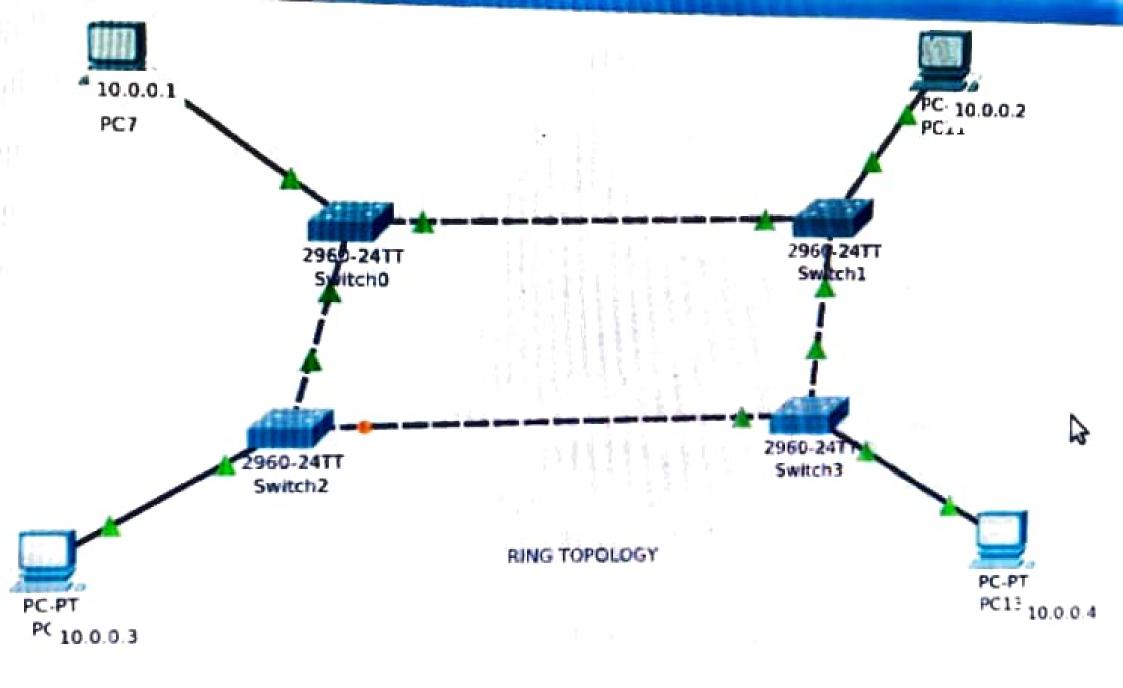
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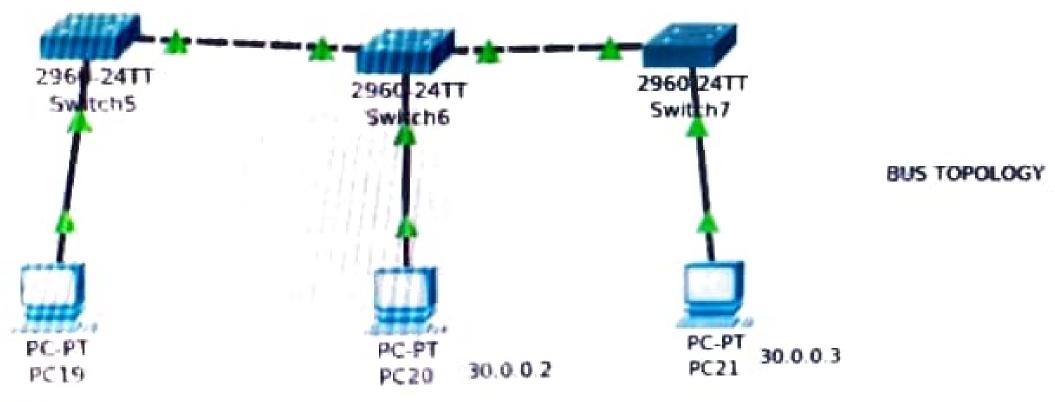


On using the command ping 192-168-20:2 on PCI we succeive time botween parkets and suspense which shows his that PCI and PCZ are connected. Mong command fing 192.168.20.3 on PC2 will scentin suguest time out ous devices are not Connected home parket is never sent. 12 Compare narious typos of Notwoods. Ans LAN 1. LAN is defined as a computer notwoode that links local above 2. LAN is a wired network. 3. LAN notrook ownership is pointette. 5. Maintenance is very less.

6. Bandwidth is very high. 1. Eg- ly Hospital. MAN 1. MAN is defined as a computer notwood that ignost the motor polian network. 2. MAN uses surteres moderns jour connections. 3. MAN ownership can be pouvate (public. 4. MAN connection spood is moderate eg- 44-155 misses. 5. Maintenance cost is difficult. 6. Bandwidth is very loss. 7. G- City.

WAN 1. WAN is defined as tole communication network that covers large geographical area. 2. InIAN is connected thorough 3Cr/4Cr beroadbonds 3. Ownorship ban be private public. 4. The connection speed is very low i.e. 150 mbps 5. The maintenance cost is difficult. 6. The bandwidth is sulatively low. 7. Eg- Bewardbarrd and Internot thorough the country.





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