

# CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

## FACULTY OF TECHNOLOGY AND ENGINEERING

Smt. K. D. Patel Department of Information Technology

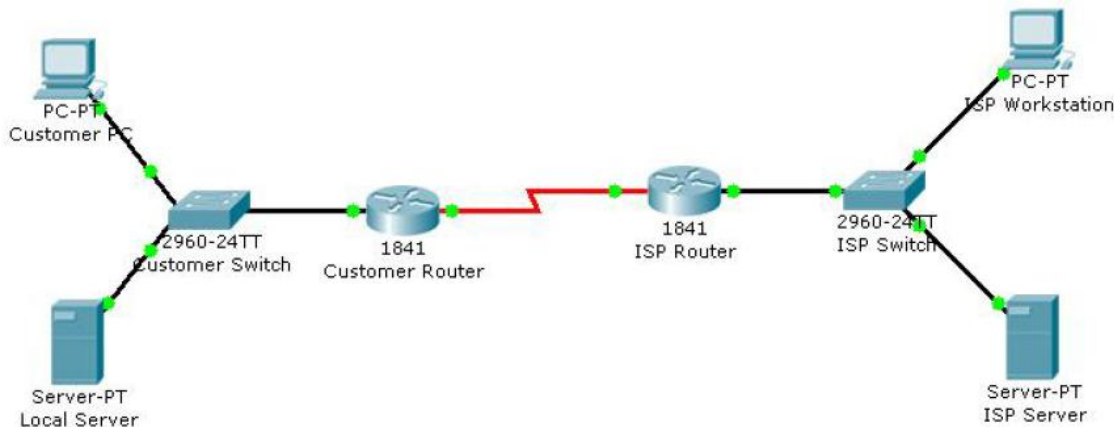
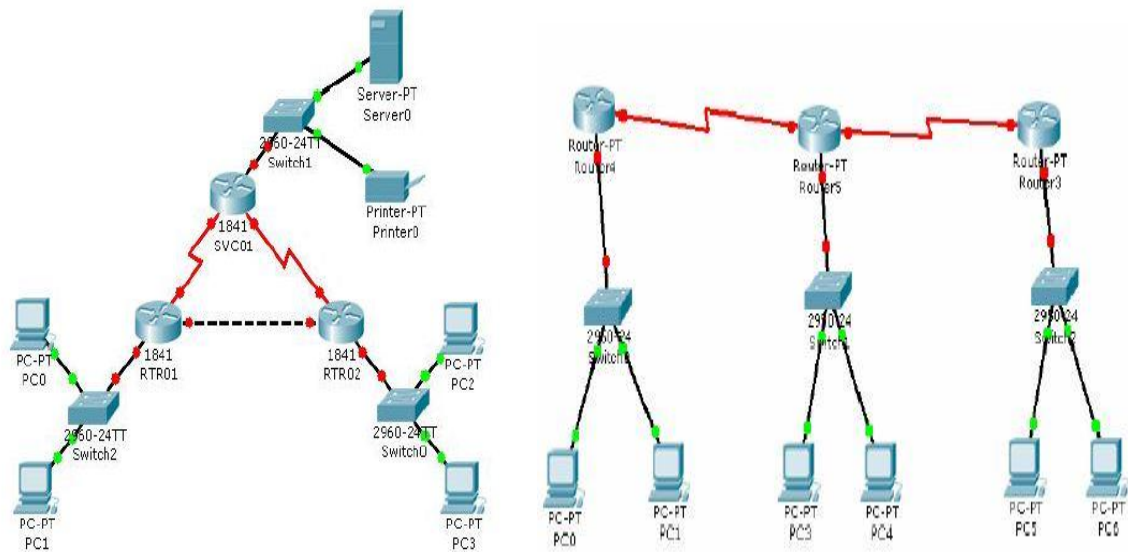
Subject Name: COMPUTER NETWORKING

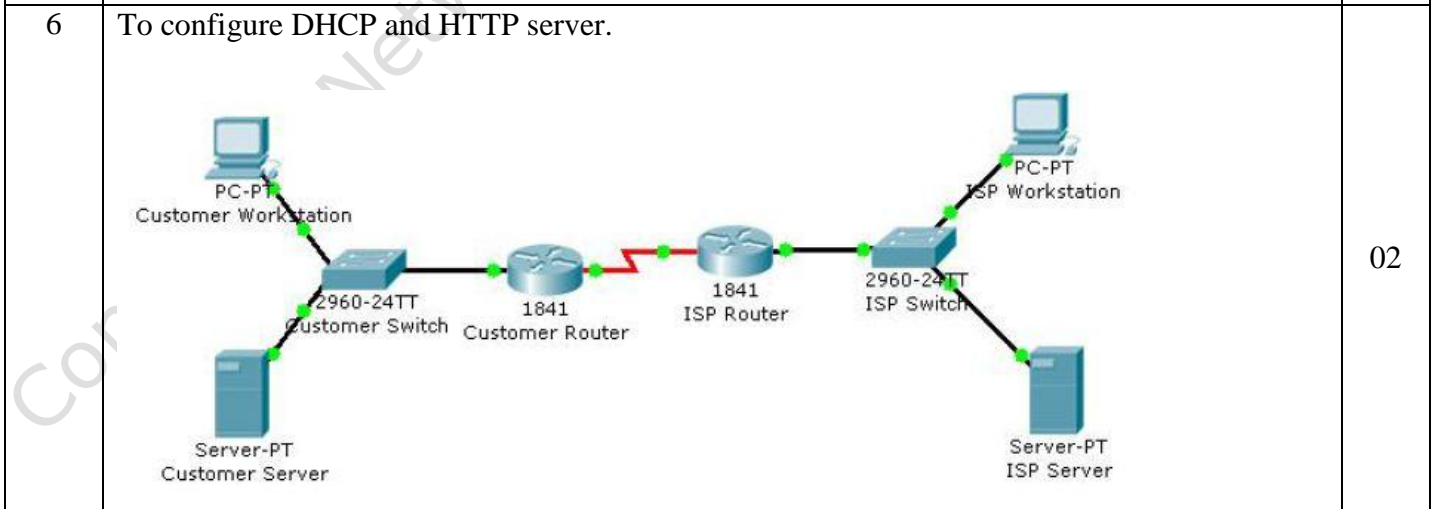
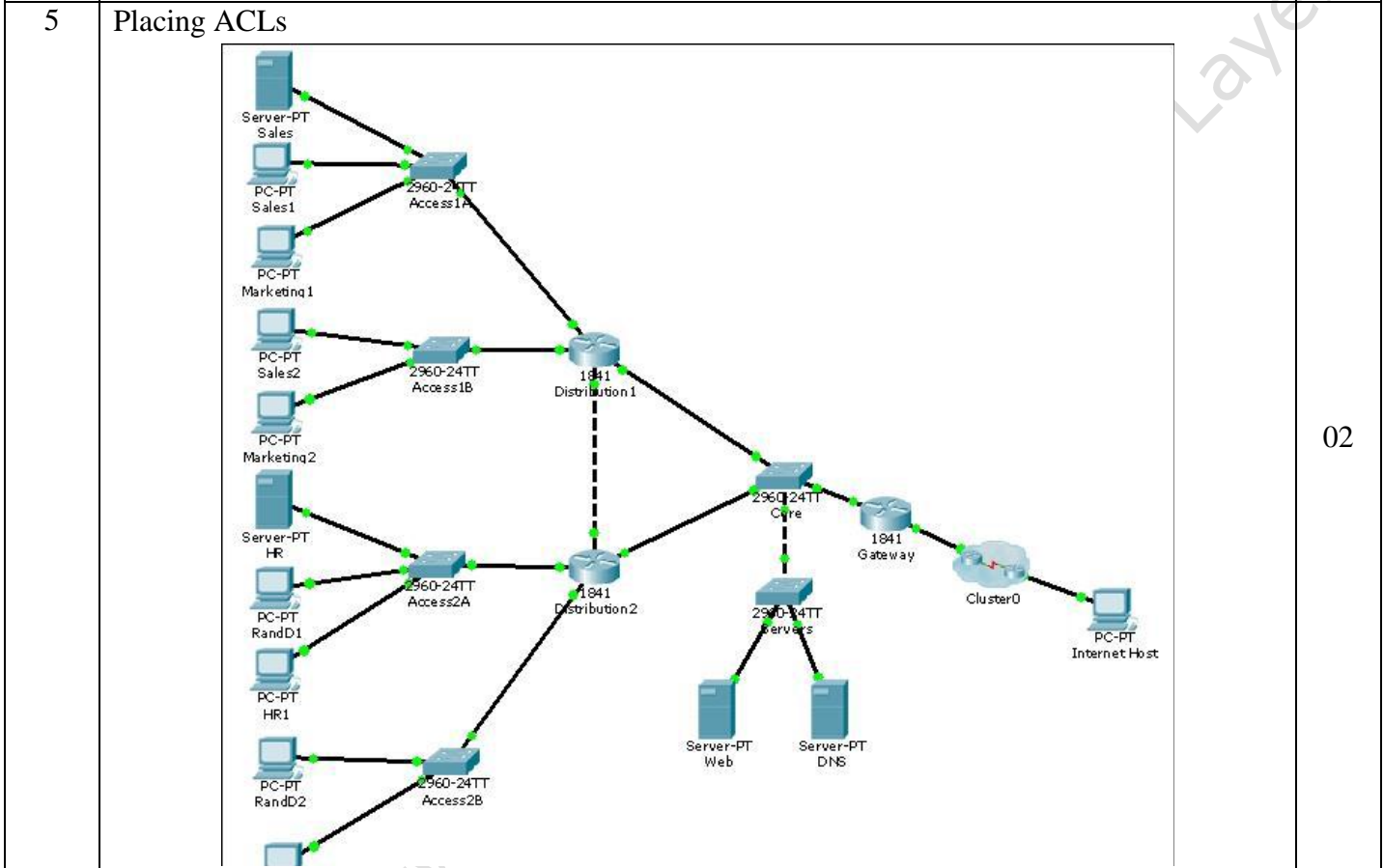
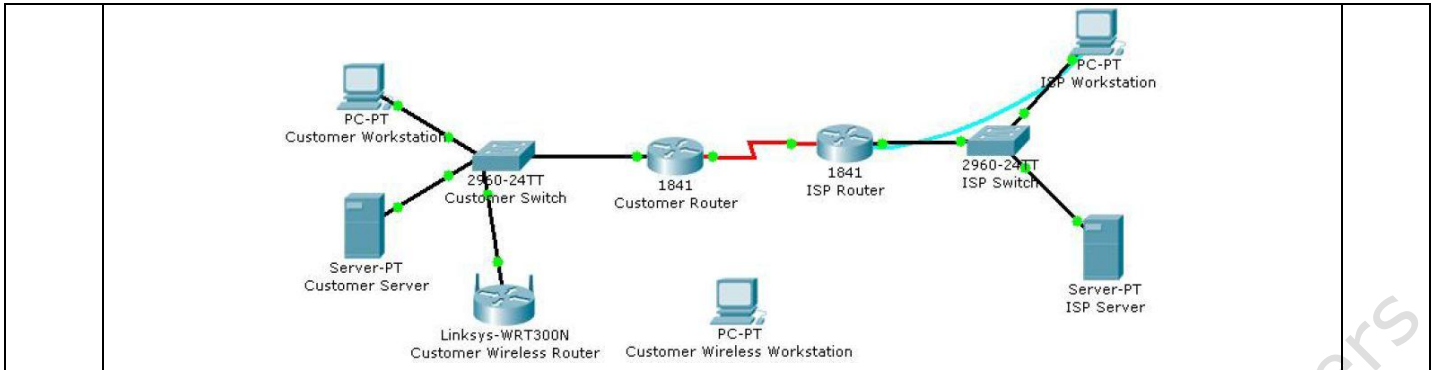
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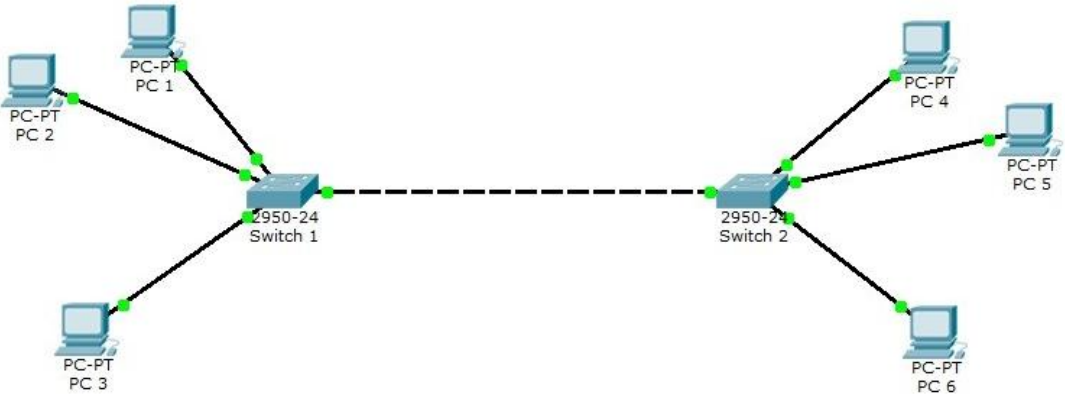
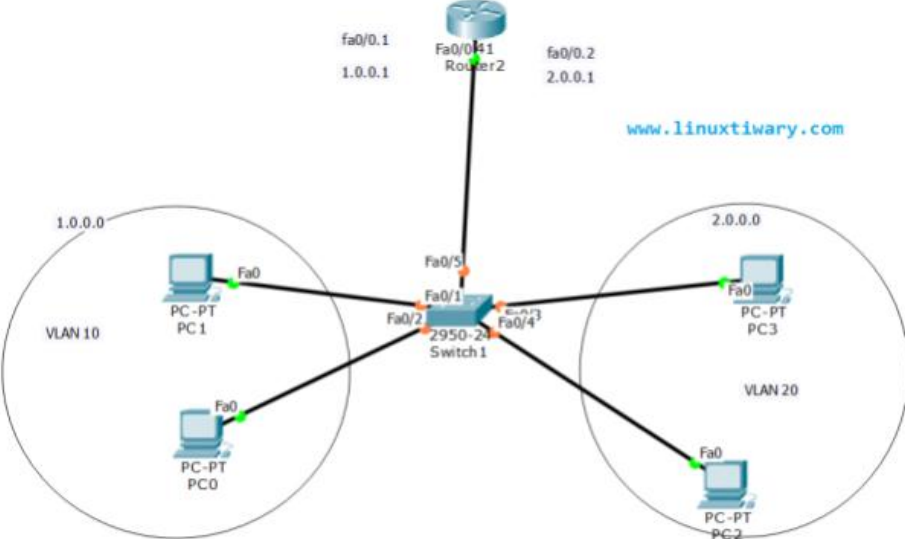
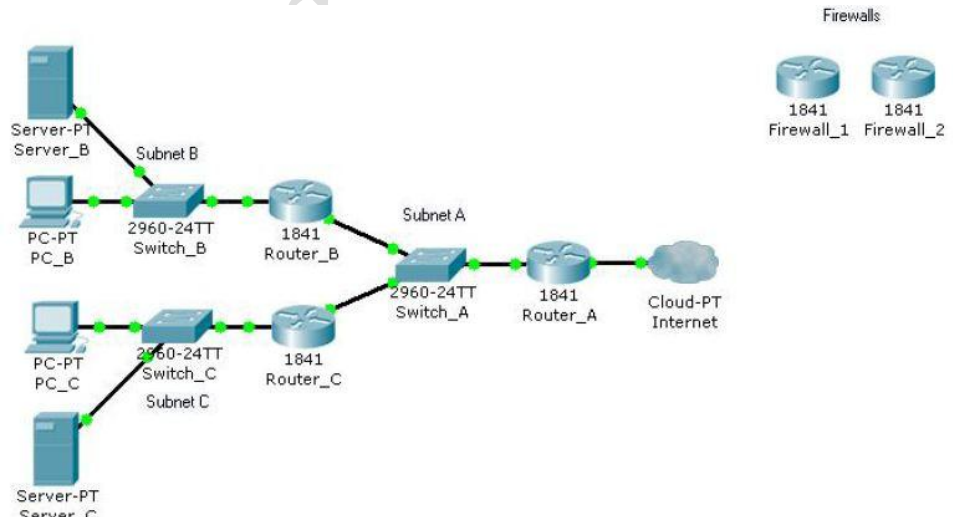
Semester: VI

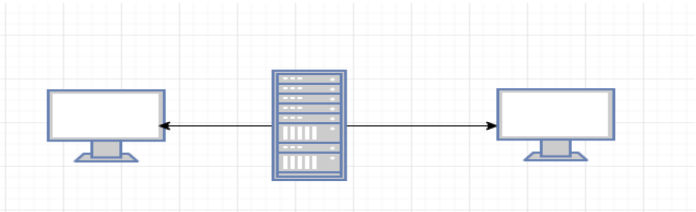
A.Y.: 2019-20

### Practical List

| Sr. No.  | Aim   | Hrs      |          |            |          |          |          |         |
|--|---|----------|----------|------------|----------|----------|----------|---------|
| 1  | Study of basic network command and Network configuration commands.  | 01       |          |            |          |          |          |         |
|  | <table><tr><td>Ping</td><td>Traceroute</td><td>Ipconfig</td><td>Pathping</td></tr><tr><td>NSlookup</td><td>Netstat</td><td>Arp</td><td></td></tr></table> |          | Ping     | Traceroute | Ipconfig | Pathping | NSlookup | Netstat |
| Ping   | Traceroute  | Ipconfig | Pathping |            |          |          |          |         |
| NSlookup   | Netstat   | Arp      |          |            |          |          |          |         |
| 2  | Performing an Initial Switch Configuration  | 01       |          |            |          |          |          |         |
|   |   |          |          |            |          |          |          |         |
| 3  | Routing Static vs Dynamic( RIP OSPF)  | 04       |          |            |          |          |          |         |
|  |   |          |          |            |          |          |          |         |
| 4  | Configuring WEP on a Wireless Router  | 02       |          |            |          |          |          |         |



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|----|---|----|
|    |   |    |
| 8  | <p><b>Inter VLAN Routing Configuration</b></p>   | 04 |
| 9  | <p><b>Planning Network-based Firewalls</b></p>    | 02 |
| 10 | <p><b>Briefing of Network Simulator-3</b></p> <ul style="list-style-type: none"> <li>• Introduction , Features and Network supported by NS3 and platform required to run Network Simulator</li> <li>• the waf build system</li> <li>• Backend Environment of Network Simulator</li> <li>• Installation steps of NS-3 in Ubuntu 14.04 or 16.04 LTS</li> <li>• Installation and configuration of NetAnim</li> </ul> | 04 |

|    |  |    |
|----|--|----|
|    |  |    |
| 11 | Design simple program for two nodes client server wired topology and analyze behavior of this topology by changing data rate and delay in ns-3.(Point – to - Point)                          | 02 |
| 12 | Program in NS3 for connecting three nodes considering one node as a central node and generate trace file.  | 02 |
| 13 | To analyse network traces using wireshark software.  | 02 |

**Prepared By:**

Sandip Patel    Nehal Patel