

## Index

| Sr. No. | Practical   | Page No. | Date of Performance | Date of Submission | Marks | Sign |
|---------|---|----------|---------------------|--------------------|-------|------|
| 1.      | Study of network devices such as switches, routers, hubs, access points, and firewalls using cisco packet tracer.   |          |                     |                    |       |      |
| 2.      | Study and design of various network topologies using cisco packet tracer.   |          |                     |                    |       |      |
| 3.      | Study of HUB and switch behavior using cisco Packet Tracer.   |          |                     |                    |       |      |
| 4.      | Study and Configuration of Virtual LAN (VLAN) using Cisco Packet Tracer.  |          |                     |                    |       |      |
| 5.      | Study and Design of Wireless LAN (WLAN) using Cisco Packet Tracer.  |          |                     |                    |       |      |
| 6.      | Design three or four simple networks (with 3 to 4 hosts) and connect via Router. Perform simulation and trace how routing is done in packet transmission. A: Experiment on the same subnet. B: Experiment across the subnet and observe the functioning of Router.                            |          |                     |                    |       |      |
| 7.      | Study and implement routing protocols at the network layer in cisco packet tracer.  |          |                     |                    |       |      |
| 8.      | Study and configure Virtual Private Network (VPN) in cisco packet tracer.   |          |                     |                    |       |      |
| 9.      | Study experiment on transport layer using cisco packet tracer.  |          |                     |                    |       |      |
| 10.     | Packet Capture and Analysis Using Wireshark A: Network Traffic Monitoring - Inspect packet headers, and analyze data flow within a network. B: Capturing and Examining Protocol Headers- Analyze TCP/IP packet structures to identify traffic patterns and detect potential security threats. |          |                     |                    |       |      |