

Roll.No.

25UCGCT5008

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.

B.Sc.Cs with CGS - END SEMESTER EXAMINATIONS - NOVEMBER 2025
SEMESTER - V

25UCGCT5008 - Network Management

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Explain the types of IPv4 address and their uses in internetwork
2. Describe the process of configuring VLANs on a Cisco switch.
3. Apply troubleshooting techniques to resolve IP connectivity issues.
4. Illustrate how access lists can be used to enhance network security.
5. Explain the working of RIP and its limitations in large networks.
6. Apply STP modifications to prevent network loops and improve performance.
7. Describe how Syslog and NTP help in managing Cisco devices.
8. Recommend suitable VPN technologies for securing WAN communications

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Apply subnetting techniques to design an efficient IP addressing scheme.
10. Solve a routing issue using EIGRP and justify your troubleshooting steps.
11. Diagnose VLAN misconfigurations and recommend corrective actions.
12. Critique the effectiveness of CDP and LLDP in network device discovery.
13. Examine the role of FHRPs in ensuring network redundancy and reliability.
