TB243993D

Reg. No :.....

Name :.....

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024

2018, 2019, 2020, 2021, 2022 ADMISSIONS SUPPLEMENTARY

B.C.A SEMESTER III - COMPLEMENTARY COURSE 1

BCA3B09B18 - Computer Networks

Time : 3 Hours **Maximum Marks : 80**

Part A

I. Answer any Ten questions. Each question carries 2 marks **(10x2=20)**

1. Define (i) Client (ii) Server.
2. Describe the different types of topologies.
3. How a bridge is different from a gateway?
4. Explain the functions of NIC.
5. What do you mean by Ad-hoc Mode?
6. Draw the socket structure and explain.
7. What do you mean by Ports? Explain its types.
8. Identify the need of firewall in a network.
9. What is Secure Socket Layer (SSL)?
10. How will you troubleshoot hardware components in a network infrastructure?
11. How would Windows NT server ensure its OS level security?
12. Discuss the importance of the step "Document the solution" in Network troubleshooting.

Part B

II. Answer any Six questions. Each question carries 5 marks **(6x5=30)**

13. What are the functionalities of Presentation Layer in ISO/OSI Model?
14. How will you select a right topology?
15. Write a short note on wireless security protocols.
16. Discuss about ICMP.
17. Briefly explain the protocols used for File Transfer.
18. What is network security? What are the ways to secure a network?
19. Explain Circuit Switching.
20. Tell about Microsoft Windows.
21. Discuss about UNIX OS.

Part C

III. Answer any Two questions. Each question carries 15 marks **(2x15=30)**

22. Compare OSI and TCP/IP Model along with the architecture diagram of both the model.
23. Discuss ARP frame format and explain its function.
24. Write an essay about ICMP and IGMP protocols.
25. Explain in detail about (i) Circuit Switching (ii) Message Switching and (iii) Packet Switching techniques.