BCA DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2022
(2021 Admissions Regular,2020 Admissions Supplementary/Improvement,2019 & 2018 Admissions Supplementary)
SEMESTER III - COMPLEMENTARY COURSE 1 (BCA (CLOUD TECHNOLOGY AND INFORMATION SECURITY MANAGEMENT))
BCA3B09B18 - COMPUTER NETWORKS

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

Part A

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

1. Explain the 3 Communication modes.

2. Define (i) Host (ii) Workstation.

3. Discuss ARP.

4. How a bridge is different from a gateway?

5. Discuss about the 2 types of wireless networks.

6. What is a subnet mask and why do we need it?

7. Write the features of NTP.

8. What is a SONET?

9. What is the need of Transport Layer Security?

10. Which are the four basic Windows NT Domain model?

11. How can one determine the quality of Internet connection?

12. What do you meant by Network Operating System?

Part B

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

13. What is the use of (a) Straight-through-Cable (b) Crossover Cable and (c) Rollover Cable?

14. Explain the different types of networks with its advantages and disadvantages.

15. Discuss the modulation techniques used for analog data transmission.

16. Briefly explain the protocols used for File Transfer.

17. Brief out the functions of DHCP and DNS.

18. What are IPSec, SSL and TLS in network security?

19. Discuss about the protocols used in tunneling and encryption techniques.

20. Briefly explain Microsoft Operating Systems.

21. Write a short note on Macintosh Networking.

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. What are the benefits of wireless LAN? Discuss Wireless LAN Modulation Techniques.

24. What are the functions of Network Layer? Discuss about IPv4 along with its header format.

25. Write an essay on Network Security.