



23107222

QP CODE: 23107222

Reg No :

Name :

**B.Sc/BCA DEGREE (CBCS) SPECIAL SUPPLEMENTARY EXAMINATIONS, APRIL
2023**

Fifth Semester

CORE COURSE - CS5CRT12 - COMPUTER NETWORKS

Common for B.Sc Information Technology Model III & Bachelor of Computer Applications

2020 Admission Only

1725F2AD

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Define data and signals.
2. Define mode of transmission.
3. Define multiplexing.
4. Differentiate step index and graded index fiber.
5. Define switch. What are the different types of switches?
6. Differentiate sequence number and acknowledgement number.
7. Differentiate CSMA/CD and CSMA/CA.
8. What is scatternet.
9. What is an address space? What is the address space of IPv4?
10. What is flow label?
11. What is open loop congestion control?
12. How is HTTP similar to FTP.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Write a note about the organization of layer.
14. Write down the steps of analog to analog conversion.
15. Explain FHSS in detail.
16. Explain error detection and error correction in Data Link layer.
17. What is framing? Differentiate fixed-size and variable size framing.
18. What are the issues to be considered, when an Ethernet LAN and a wireless LAN are connected using a bridge?
19. Briefly describe the Hexadecimal colon notation of an IPv6 address.
20. Explain fully qualified domain name and partially qualified domain name.
21. Explain Traditional ciphers with example.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Categories the basic topologies in terms of line configuration.
23. Define transmission medium. Explain guided media in detail.
24. Explain Cellular Telephony. Write notes on (i) base station (ii) mobile switching center (iii) frequency reuse principle (iv) Hand off
25. What is connectionless services? Explain UDP in detail.

(2×15=30)

