21U627
(Pages: 2)
Name: ....

Reg.No: ....

SIXTH SEMESTER B.Sc./B.C.A. DEGREE EXAMINATION, APRIL 2024
(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U BCS6 B13 / CC19U BCA6 B13 - COMPUTER NETWORKS
(Computer Science / Computer Application - Core Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)
Answer *all* questions. Each question carries 2 marks.

1. Distinguigh between Ring and Bus topology.

2. What is LRC? Explain with an example.

3. Define CSMA.

4. Define repeater.

5. Draw the Position of IPV4 in TCP/IP protocol suite.

6. Write a note on transition from IPV4 to IPV6.

7. What are connectionless protocols ? Give examples.

8. Explain SCTP protocol.

9. Explain various techniques to improve Quality of Service.

10. Describe modern block ciphers.

11. Explain the purpose of keys in cryptography.

12. Describe Digital signature.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)
Answer *all* questions. Each question carries 5 marks.

13. Explain the layered architecture of TCP/IP model.

14. Write a short note on Line discipline in Datalink layer.

15. Define Ethernet. Explain various ethernet standards.

16. Write a note on ARP and RARP protocols.

17. Explain Distance vector routing protocol.

18. Discuss the working of email.

19. Describe ciphers. Explain types of ciphers.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

20. Discuss various switching techniques in detail.

21. Describe Hash function. Explain Hash algorithms in detail.

(1 × 10 = 10 Marks)

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