20U627 (Pages: 2) Name: .....

Reg.No: .....

SIXTH SEMESTER B.Sc./B.C.A. DEGREE EXAMINATION, APRIL 2023

(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. What is meant by Topology? Give examples.
2. What is VRC? Explain with an example.
3. Write a short note on Stop-and-wait protocol.
4. Define Hub.
5. Define datagram.
6. Define Tunneling.
7. Describe multiple-stream concept in SCTP.
8. Explain the concept of leaky bucket.
9. Describe FTP, HTTP.
10. Describe ciphers.
11. Describe message digest.
12. Explain signing the Digest.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer ***all*** questions. Each question carries 5 marks.

13. Write a note on store and forward mechanism in message switching.
14. How does CSMA/CD detect collision in wired network? Explain.
15. Explain ethernet standards.
16. Define address mapping in Network layer. Discuss ARP and RARP protocols.
17. Define routing protocols. Explain distance vector routing protocol.

18. TCP is a connection oriented protocol. Discuss.

19. Explain DES.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Discuss layered architecture of OSI model with neat diagram.

21. Discuss RSA algorithm in detail.

(1 × 10 = 10 Marks)

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