

**D 50641**

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Name.....

Reg. No.....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018**

(CUCBCSS—UG)

**B.C.A.**

**BCA 5B 10—COMPUTER NETWORKS**

Time : Three Hours

Maximum : 80 Marks

**Part A**

*Answer all questions.*

*Each question carries 1 mark.*

1. According to transmission technology, networks can be classified as \_\_\_\_\_ networks and \_\_\_\_\_ networks.
2. LAN stands for \_\_\_\_\_.
3. DTE stands for \_\_\_\_\_.
4. The expansion of VRC is \_\_\_\_\_.
5. ISDN stands for \_\_\_\_\_.
6. A list of the protocols used by a certain system, one protocol per layer, is called a \_\_\_\_\_.
7. CSMA stands for \_\_\_\_\_.
8. UDP stands for \_\_\_\_\_.
9. The expansion of TFTP is \_\_\_\_\_.
10. NFS stands for \_\_\_\_\_.

(10 × 1 = 10 marks)

**Part B**

*Answer all questions.*

*Each question carries 2 marks.*

11. What is connection oriented service ?
12. What is circuit switching ?
13. What is ALOHA ?
14. What is single bit error ?
15. What is flooding ?

(5 × 2 = 10 marks)

**Turn over**

**Part C**

*Answer any **five** questions.  
Each question carries 4 marks.*

16. Explain the characteristics of LAN and WAN in detail.
17. Write short notes on RS 232 interface.
18. Explain flow control in data link layer.
19. What are repeaters ?
20. Explain the role of user agents in e-mail.
21. What is the function of Post Office Protocol ?
22. What is remote login ?
23. Differentiate static routing and dynamic routing.

(5 × 4 = 20 marks)

**Part D**

*Answer any **five** questions.  
Each question carries 8 marks.*

24. Explain OSI reference model with neat diagram.
25. Explain Hamming codes with an example.
26. Explain CSMA with collision detection.
27. Write short notes on Wireless LAN standard 802.11.
28. Explain Link State Routing.
29. Differentiate IPv4 and IPv6.
30. Explain Dynamic Host Configuration Protocol.
31. Explain different types of Cryptography.

(5 × 8 = 40 marks)