

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)