16U539 (Pages: 2) Name: ………………………

Reg. No..……………………

FIFTH SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2018
(CUCBCSS-UG)
CC15U BCA5 B10 - COMPUTER NETWORKS
(Computer Application - Core Course)
(2015 Admission onwards)

Time: Three Hours   Maximum: 80 Marks

Part A
Answer *all* questions. Each question carries 1 mark.

1. Most reliable topology is _____

2. The expansion of DTE is _____

3. Protocol Data Unit (PDU) in physical layer is called _____

4. VRC even parity for 0110011 is _____

5. Number of bits in IPv6 address is _____

6. _____ is an example of data link layer device.

7. Multicast address class is _____

8. IGMP is a _____ layer protocol.

9. Remote login is possible due to _____

10. Leaky bucket algorithm is used for _____

(10 x 1 = 10 Marks)

Part B
Answer *all* questions. Each question carries 2 marks.

11. What is transmission mode?

12. Define Automatic Repeat Request (ARQ).

13. Differentiate between multicasting and broadcasting.

14. What is the purpose of Domain Name Systems?

15. Write a note on FTP.

(5 x 2 = 10 Marks)

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

16. Explain network topology with suitable diagrams.

17. Write a short note on error detection methods.

18. Briefly explain

   a) Flow control   b) Error control

19. With suitable diagram explain header format of IPv4.

20. Differentiate between distance vector routing and link state routing algorithms.

21. Compare and contrast TCP and UDP.

22. Explain the configuration of a network host.

23. Write a note on network cryptography.

(5 x 4 = 20 Marks)

Part D

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

24. Compare and contrast OSI and TCP/IP models in network.

25. With suitable example explain Hamming code error correction method.

26. Explain

a**)** Networking and Internetworking devices   b**)** Classfull IP addressing.

27. Briefly explain multiple access protocols.

28. Write short notes on application layer protocols.

29. What is switching? Explain different switching methods.

30. Write short notes on :

a) IP   b) ARP   c) RARP   d) ICMP

31. Explain IEEE 802 standards in detail.

(5 x 8 = 40 Marks)

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