17U566A (Pages: 2) Name: ……..

Reg. No……

FIFTH SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2019

(Supplementary/Improvement)

(CUCBCSS-UG)

CC15U BCA5 B10 - COMPUTER NETWORKS

(Core Course)

(2015 & 2016 Admissions)

Time: Three Hours Maximum: 80 Marks

Part A

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

1. What is SNR?
2. Write an example for guided media.
3. VRC stands for _____.
4. What is Burst Error?
5. What is the acronym for NAT?
6. What is the number of bits in an IPv6 address?
7. Write any two protocols used in Application Layer.
8. SCTP stands for _____.
9. What is the use of POP?
10. TFTP stands for _____.

(10 x 1 = 10 Marks)

Part B

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

11. Differentiate logical address and physical address.
12. What is the significance of Hamming Code?
13. Find the network id and host id of the following IP address 209.33.51.11
14. What is the use of sliding window protocol?
15. What is the use of DNS?

(5 x 2 = 10 Marks)

Part C

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

16. Compare and contrast a circuit-switched network and a packet-switched network.
17. Define piggybacking and its usefulness.
18. Explain subnetting and supernetting.
19. How does Address Resolution Protocol work?

20. List the features of SCTP.

21. Explain three-way handshake protocol.

22. Write note on Network File System.

23. Explain different categories of cryptography.

(5 x 4 = 20 Marks)

Part D

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

24. Explain the different categories of multiplexing.

25. Explain in detail OSI reference model.

26. Explain the different functions of Data Link Layer.

27. Write notes on Simplest Protocol and Stop-and-wait protocol.

28. Explain any two routing protocols.

29. Compare and contrast IPv4 and IPv6 with proper diagram.

30. Distinguish between TCP and UDP.

31. Write notes on the following:

    i) DHCP ii) SMTP

(5 x 8 = 40 Marks)

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