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(Pages: 2)

Name:

Reg. No:

FIFTH SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2021

(CUCBCSS-UG)

CC15U BCA5 B10 - COMPUTER NETWORKS

(Core Course)

(2015, 2016 Admissions – Supplementary)

Time: Three Hours

Maximum: 80 Marks

Part A

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

1. Bits can be sent over guided and unguided media as analog signal by _____
2. HTTP means _____
3. The number of links to connect 'n' nodes in a mesh topology is _____
4. The communication mode that support two way communication but only one direction at a time is called _____
5. Extra bit added to the data for correction is called _____
6. In _____ communication, there is one source and group of destinations
7. The physical layer is concerned with _____
8. Protocol data unit concerned with the Transport layer is _____
9. SMTP is used for _____
10. _____ is a number or set of numbers on which a cipher operates.

(10 × 1=10 Marks)

Part B

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

11. What is DES?
12. Define Encryption and Decryption.
13. What is the use of Hub in network?
14. What are the different layers in TCP/IP model?
15. What do you mean by ARQ?

(5 × 2 = 10 Marks)

Part C

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

16. Explain sliding window protocol.
17. Compare and contrast a circuit-switched network and a packet-switched network.
18. Explain different network Topologies and cite the advantages and disadvantages.

19. Write short notes on Domain Name system.
20. What are the services provided by data link layer to network layer?
21. Explain different categories of cryptography.
22. Differentiate TCP and UDP.
23. Explain about LRC and CRC in used in error correction mechanism.

(5 × 4 = 20 Marks)

Part D

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

24. Explain about the seven layers and its function in the OSI model with the help of a neat diagram which gives an overview of OSI layers.
25. Write a detailed note on ALOHA.
26. With suitable example explain Hamming code error correction method.
27. Write note on simplest protocol and stop-and-wait protocol.
28. Explain any two routing protocols.
29. Compare IPV4 and IPV6 with detailed diagram.
30. Explain the protocols used in Application layer.
31. Briefly describe about network security and cryptography.

(5 × 8 = 40 Marks)
