TB245258J

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BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024 2022 ADMISSIONS REGULAR B.VOC S.W.D.SEMESTER V - SKILL

VSD5S06B18 - Computer Networks

Time: 3 Hours

Maximum Marks: 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

- 1. Define Data Communication.
- 2. Name the User Support Layers in ISO-OSI Model.
- 3. For n devices in a network, Compute the number of cable links required for a mesh topology?
- 4. What are the three major classes of guided media?
- 5. Name different unguided medias for data transmission.
- 6. Explain the purpose of cladding in an optical fiber.
- 7. Assuming even parity, find the parity bit for each of the following data unit using simple parity check. a. 10110 b. 11011011
- 8. Which are the two methods of variable length framing?
- 9. What is internet?
- 10. Explain multicast routing?
- 11. What is country domains?
- 12. What is Remote Logging?

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

- 13. Explain Transmission Impairments in detail.
- 14. Differentiate multiplexer and demultiplexer. Illustrate with a neat diagram
- 15. Explain the virtual circuit network
- 16. Find the codeword for the data word 1011using hamming codes.
- 17. Explain the CSMA/CD in detail.
- 18. Discuss File Transfer protocol.
- 19. Explain shortest path routing algorithm?
- 20. Differentiate static and dynamic web documents.
- 21. Discuss Diffie Hellman Cryptosystem.

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

- 22. Explain in details of TCP-IP reference Model with a neat diagram.
- 23. Define CRC ? Given the dataword 1010011010 and the divisor 10111. a. Show the generation of the codeword at the sender site. b. Show the checking the codeword at the receiver site.
- 24. Briefly explain congestion control mechanism and congestion avoidances in Network Layer.
- 25. What is cryptography? Explain briefly about traditional Cryptography.