

TB205915V

Reg. No :

Name :

B. Voc. DEGREE (C.B.C.S.) EXAMINATION, NOVEMBER 2022
2020 ADMISSIONS REGULAR AND 2019, 2018 ADMISSIONS SUPPLEMENTARY
SEMESTER V - SKILL COURSE (SOFTWARE DEVELOPMENT)
VSD5S06B18 - COMPUTER NETWORKS

Time : 3 Hours

Maximum Marks : 80

Part A

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

(10x2=20)

1. For n devices in a network, Compute the number of cable links required for a mesh topology?
2. Name the User Support Layers in ISO-OSI Model.
3. Explain SNR .
4. Name the three propagation methods of unguided signals .
5. What is Bandwidth utilization?
6. What is the significance of the twisting in twisted pair cable ?
7. Assuming even parity, find the parity bit for each of the following data unit using simple parity check. a. 10110 b. 11011011
8. Explain Bluetooth Network ?
9. Explain EGP?
10. What is the length of an IPV6 address in bits ?
11. What is Transposition ciphers ?
12. What is telnet ?

Part B

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

(6x5=30)

13. Differentiate transmission modes half duplex and full duplex.
14. Differentiate circuit switching and packet switching with neat diagrams.
15. Explain TDM with a neat diagram.
16. Explain the concept of ALOHA protocols ?
17. Explain CDMA
18. Explain UDP protocol?
19. Explain the Architecture of IP header.
20. Explain Email system in detail
21. Explain the following application layer protocols a. HTTP b. File Transfer Protocols

Part C

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

(2x15=30)

22. Explain the advantages of Computer networks - in different fields?
23. Define Channelization methods of MAC layer and list three methods in this category in detail.
24. Discuss Logical addressing IPV4 and IPV6 in detail.
25. Discuss design issues of Application layer.