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VI Semester B.A./B.Sc. Degree Examination, August/September - 2023

COMPUTER SCIENCE

Computer Networks

(CBCS Scheme (F+R))

Paper : VIII

Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates :

Answer ALL the sections.

SECTION - A

I. Answer any TEN questions. Each question carries Two marks. (10×2=20)

1. Define computer networks and write the advantages of computer networks.
2. Mention the function of the tools 'Ping' and 'Tracert'.
3. What is meant by Baud rate?
4. What are parity bits?
5. What is a token?
6. What are the two parts of frame?
7. Define the purpose of NIC.
8. Differentiate the repeater and Bridge.
9. What is the main disadvantage of packet switching.
10. Define Jitter.
11. What is meant by virtual network?
12. Define IP address and mention the components of IP address.



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SECTION - B

- II. Answer any FIVE questions. Each question carries 10 marks. (5×10=50)**
13. a) Explain Guided and unguided transmission media. (5)
b) Explain different asynchronous communication methods. (5)
14. Explain FDM, WDM and TDM with advantages and disadvantages. (10)
15. a) How to detect the errors using CRC? (5)
b) Explain the different LAN topologies. (5)
16. a) Write a short note on frame Headers and frame format. (5)
b) Mention any 5 characteristics of Thinnet coaxial cable and Thicknet coaxial cable. (5)
17. a) Write a note on ISDN. (5)
b) Bring out the differences between LAN, MAN and WAN. (5)
18. What is routing? Explain any two routing algorithm. (10)
19. Explain seven layers of OSI model. (10)
20. a) Explain IP address and classes. (5)
b) Write a short note on TCP. (5)
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