

K23U 0481

Reg. No. :

Name :

VI Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/ Improvement) Examination, April 2023 (2019 and 2020 Admissions) CORE COURSE IN COMPUTER SCIENCE 6B12CSC : Data Communication and Computer Networking

Time : 3 Hours

Max. Marks: 40

PART – A (Short Answer)

Answer all questions.

- 1. Define TELNET.
- 2. Define LAN.
- 3. What is meant by network protocol?
- 4. What is ARQ ?
- 5. Define routing in computer network.
- 6. What is meant by point to point ? UNIN

PART – B (Short Essay)

Answer any 6 questions.

- 7. Differentiate FTP and HTTP.
- 8. What are the important components of data communication ?
- 9. Illustrate bit stuffing.

(6×1=6)

(6×2=12)

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- 10. What is the function of physical layer?
- 11. What is WAN ?
- 12. Explain optimality principle.
- 13. Explain hierarchical routing.
- 14. What is SMTP ? Explain.

PART – C (Essay)

Answer any 4 questions.

- 15. What are the different transport layer reliability services ? Explain.
- 16. Explain Dijkstras shortest path algorithm with suitable example.
- 17. Explain simplex, half duplex and duplex.
- 18. What is stop and wait protocol ? Explain.
- 19. Describe network layer protocols.
- 20. Differentiate UDP and TCP.

PART – D (Long Essay)

Answer any 2 questions.

- 21. What are the different transport layer protocols ? Explain.
- 22. Explain congestion control algorithms.
- 23. What is topology ? Explain.
- 24. Differentiate between OSI and TCP/IP model.

(4×3=12)

(2×5=10)