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. (6×1=6)

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 ?

PART – B
(Short Essay)

Answer **any 6** questions. (6×2=12)

7. Differentiate FTP and HTTP.

8. What are the important components of data communication ?

9. Illustrate bit stuffing.

P.T.O.

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. (4×3=12)

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. (2×5=10)

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.

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