



K22U 0381

Reg. No. :

Name :

VI Semester B.Sc. Degree (CBCSS – OBE – Regular)
Examination, April 2022
(2019 Admission)
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. What is MAN ?
2. Write two services provided by Transport Layer.
3. Mention the design issues in Data Link Layer.
4. What is bit stuffing ?
5. What is the use of FTP ?
6. What is Internet ?

PART – B
(Short Essay)

Answer **any six** questions.

(6×2=12)

7. Differentiate gateway and router.
8. Explain CSMA and its uses.
9. What do you mean by remote procedure call ?
10. What is the difference between serial and parallel transmission ?
11. Distinguish between Pure Aloha and Slotted Aloha protocols.

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12. Write a note on Flow Control.
13. Explain the functions of DNS.
14. Explain different categories of networks.

PART - C

(Essay)

Answer **any 4** questions.

(4x3=12)

15. Briefly explain leaky bucket algorithm.
16. Explain the following protocols :
 - a) UDP
 - b) TCP
 - c) SMTP
17. Explain Simplex and Half Duplex networks.
18. Explain Framing.
19. Explain different topologies.
20. What do you mean by Congestion ? Explain.

PART - D

(Long Essay)

Answer **any 2** questions.

(2x5=10)

21. Explain about guided and unguided transmission media.
22. Explain the ISO-OSI reference model.
23. Explain different types of routing.
24. Explain about transport layer protocol.