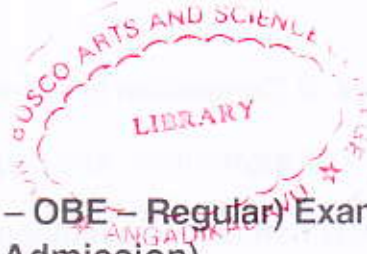




K22U 0345

Reg. No. :

Name :



VI Semester B.C.A. Degree (CBCSS – OBE – Regular) Examination, April 2022
(2019 Admission)

Core Course

6B19 BCA : DATA COMMUNICATION AND NETWORKS

Time : 3 Hours

Max. Marks : 40

PART – A
(Short Answer)

Answer **all** questions :

(6×1=6)

1. Expand LAN and WAN.
2. Define Computer Network.
3. What is framing ?
4. What is a datagram in network communication ?
5. Define cryptography.
6. What is Hamming Code ?

PART – B
(Short Essay)

Answer **any 6** questions :

(6×2=12)

7. What is point to point and multipoint Line Configuration ?
8. List the advantages and disadvantages of mesh topology.
9. Write short note on bit stuffing.
10. What are the functions of Physical Layer ?
11. Differentiate Adaptive and Non-Adaptive Routing.

P.T.O.



- 12. What are the causes of Congestion in networks ?
- 13. What is symmetric and asymmetric key cryptography ?
- 14. Explain the three-way handshaking method for connection establishment.

PART – C
(Essay)

Answer **any 4** questions : **(4×3=12)**

- 15. Explain the Guided transmission mediums : coaxial cable and twisted pair cables.
- 16. Discuss Synchronous and asynchronous transmission.
- 17. Write note on Simplex Stop and Wait Protocol.
- 18. Explain in detail about flow based and hierarchal routing.
- 19. Discuss the functions and design issues of Transport Layer.
- 20. Write note on DES Chaining.

PART – D
(Long Essay)

Answer **any 2** questions : **(2×5=10)**

- 21. Explain in detail about OSI Reference Model.
 - 22. Discuss in detail about the congestion control algorithms (Leaky Bucket and Token Bucket).
 - 23. Explain in detail and compare the transport layer protocols TCP and UDP.
 - 24. Write and Explain the working of the RSA Algorithm.
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