



M 9738

Reg. No. :

Name :

V Semester B.C.A. Degree (CCSS – Reg./Supple./Improv.)

Examination, November 2015

BCA – Core Course

5B14 BCA : DATA COMMUNICATION AND COMPUTER NETWORKS

Time : 3 Hours

Max. Weightage : 21

SECTION – A

Answer **all** questions. Weightage for a bunch of **four** question is **one**.

1. Point to point transmission with one sender and one receiver is called _____.
2. A set of layers and protocols is called a _____.
3. Dialog control is managed by the _____ layer.
4. _____ are specialized computers that connect three or more transmission lines. (W. = 1)
5. A reliable connection oriented protocol of the transport layer is _____.
6. _____ ciphers reorder the letters to disguise the message.
7. Algorithms that change routing decisions based on changes in topology and traffic are called _____.
8. A connection that allows traffic in only one way is called _____. (W.=1)

SECTION – B

Answer **any 5** questions. Weightage **1 each**.

9. Define topology.
10. What is broadcasting ?
11. What is MAN ?

P.T.O.



- 12. What is bit stuffing ?
- 13. What are now adaptive algorithms ?
- 14. What is cryptography ?
- 15. What is addressing ?
- 16. What is asynchronous data transmission ? (5× 1=5)

SECTION – C

Answer **any 5** questions. Weightage **2 each**.

- 17. Classify networks.
- 18. Explain framing techniques.
- 19. Explain TCP/IP layers.
- 20. Explain Dijkstra's shortest path routing algorithm.
- 21. Discuss design issues in network layer.
- 22. Explain substitution ciphers.
- 23. Discuss optimality principle.
- 24. Compare TCP and UDP. (5× 2=10)

SECTION – D

Answer **any 1** question. Weightage **4 each**.

- 25. Explain about transmission media.
 - 26. Explain the RSA algorithm. (1× 4=4)
-