



Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, April/May 2012
(2008 Scheme)
08.803 : COMPUTER COMMUNICATION (T)**

Time : 3 Hours

Max. Marks : 100

- Instructions :** 1) Answer **all** questions in Part A. **Each** question carries 4 marks.
2) Answer **any two** questions from **each** Module in Part B. **Each** question carries 10 marks.

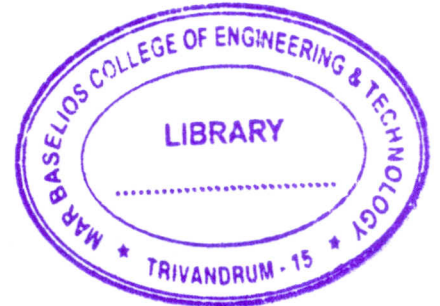
PART – A

1. What is Framing ? What are different types of Framing ?
2. Explain HDLC Protocol.
3. Write notes on TCP and UDP. Explain Sliding window Protocol.
4. Differentiate between Switch and Bridge.
5. Explain
 - a) ICMP
 - b) BGP
6. Explain shortest path algorithm.
7. How does a network intrusion detection system operate ?
8. Explain the concept of Virtual Private Network (VPN). Where it is being used ?
9. Explain how a firewall does function.
10. Explain CIDR.

PART – B
MODULE – I

11. a) Explain SONET
- b) Assuming a framing protocol that uses bit stuffing, the bit sequence before bit stuffing is shown below. What will be bit sequence in the frame that will be transmitted over the link ? Mark the stuffed bits.

110101111101011111010111111010





12. Explain the following with necessary timeline diagrams
- Stop and Wait ARQ
 - Go back N ARQ
 - Selective Reject ARQ
13. Differentiate between circuit switching and packet switching.

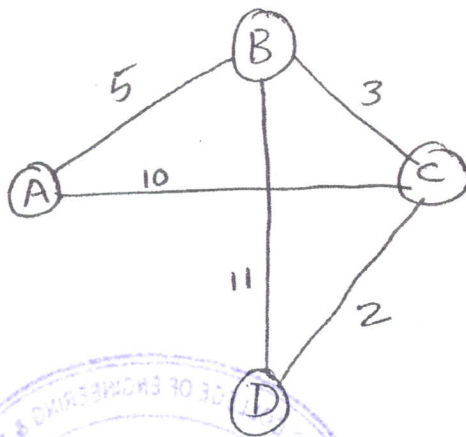
MODULE – II

14. a) Explain IPV4
- b) Find network id and host id for the following IP addresses.

100.0.0.1 190.100.0.2 250.100.4.5 200.150.4.10 227.227.15.16 4.5.5.3

15. Discuss TCP based congestion control and congestion avoidance techniques.
16. Explain Link State Routing.

Create routing table at node D for the following network graph and explain the procedure. Use Link state algorithm.



MODULE – III

17. Explain Message Digest Algorithm.
18. Discuss any two Authentication protocols.
19. Write notes on the following :
- IPSec
 - TLS
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