



Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, October 2014
(2008 Scheme)**

08.803 : COMPUTER COMMUNICATION (T)

Time: 3 Hours

Max. Marks: 100

PART – A



Answer **all** questions. **Each** question carries **four** marks.

1. Mention the advantages of a layered network model.
2. Differentiate between packet switching and circuit switching.
3. What is meant by SONET ? Explain.
4. How is error detection done in the Data Link Layer ?
5. Explain Multi Protocol Label Switching.
6. How is Packet forwarding done at the Network Layer ?
7. How is Flow control done in the transport layer ?
8. What is Message Integrity Protocol ? Explain.
9. Discuss in detail about Virtual Private Networks.
10. Explain the need of Intrusion Detection System in a network.

PART – B

Answer **any two** questions from **each** Module. **Each** question carries **10** marks.

Module – I

11. Describe the OSI network reference model in detail.
12. Explain in detail the sliding window protocols.
13. Explain the functions of various inter networking devices.



Module – II

14. a) What are the different IP address classes ? Explain.
b) Explain the need for subnetting.
15. Explain in detail the various routing algorithms.
16. Differentiate between TCP and UDP protocols. Draw the header structure of each and explain the purpose of the individual fields.

Module – III

17. Discuss about the security issues in the application layer.
18. Differentiate the need of firewalls and network intrusion detection systems on a network.
19. Write short notes on :
 - a) SSH
 - b) TLS
 - c) IPSec.