

B.E. 6th Semester (ECE) Examination, December-2011**COMPUTER NETWORKS****Paper - IT-305-E***Time allowed : 3 hours]**[Maximum marks : 100**Note : Attempt any five questions.*

1. (a) Describe the layered architecture of OSI model. 10
(b) Differentiate between LAN, WAN and MAN. 10
2. (a) Differentiate between TCP and UDP. 5
(b) What is the need of IPV6? Explain. 5
(c) A n/w on the internet has a subnet mask of 255.255.240.0. What is the maximum number of hosts it can handle? 5
(d) Describe Domain Name system. 5
3. (a) Slotted ALOHA gives better performance than pure ALOHA. Justify. 10
(b) Explain CSMA, CSMA/CD and CSMA/CA in detail. 10
4. (a) Explain IEEE 802.5 standard in detail. 10
(b) Write short note on Routers and Gateways. 10

5. (a) What is count to Infinity problem? Explain .10
(b) Explain Synchronous optical N/W in detail. 10
6. (a) Explain ATM reference model in detail. 15
(b) Why does ATM use small, fixed length cells? 5
7. Explain various techniques for achieving good quality of service. 20
8. Write short note on : 20
(a) Firewalls
(b) VLANs