

DECEMBER 2007

MAHARSHI DAYANAND UNIVERSITY
B.E V SEMESTER REGULAR EXAMINATION
COMPUTER NETWORKS

TIME : 3 HOUR
MARK : 80

ANSWER ANY FIVE QUESTIONS ALL QUESTIONS CARRY EQUAL MARKS

1. Explain OSI model. Explain function, service & protocol of each layer with advantage & disadvantage.
2. Discuss following protocol with advantages & disadvantages:
 - (i) Transmission Control
 - (ii) User data gram protocol
 - (iii) Internet protocol
3. What is LAN? Discuss various features of LAN. Also various components used to build LAN. Discuss in brief various standards of LANs.
4. What is WAN? Discuss features of WAN? What is basic role of router in WAN? How congestion control takes place? Discuss various technologies used in WAN.
5. How network management takes place? How security management takes place in network? Discuss various services such as class, quality in network?
6. Discuss the following protocol:
 - (i) ARP
 - (ii) RARP
 - (iii) ICMP With each advantage & disadvantage.
7. (a) What is frame relay? How it works? Discuss various advantages & disadvantages of it?
 - (b) Discuss client-server infrastructure of network operating system.
8. Write short notes on:
 - (i) ARPANET
 - (ii) NNTP
 - (iii) IP addressing
 - (iv) DNS