

TE /COM/ Sem VII / Rev

Advance Com - network

(3 Hours)

16/12/10
GT-7557

[Total Marks : 100

N.B. a) Questions No. 1 is compulsory

b) Attempt any four questions out of remaining six questions

1. a) Describe how is the TCP/IP protocol stack organized compared to the
ISI/OSI protocol stack [5]
- b) Differentiate between Bridge, Router and Gateway [5]
- c) What is difference between data plane and control plane in ATM [5]
- d) Discuss the functions of SONET layers [5]
2. a) Describe the Routing Information Protocol in detail with its message header
And types. [10]
- b) Write code for connection oriented client server program using c++/Java
Assume suitable libraries. Use socket programming for establishing connection [10]
3. a) Using block diagram describe a typical unidirectional dense wavelength division
Multiplexing (DWDM) transmission system? What are advantages and disadvantages
Of DWDM? [10]
- b) Explain functions of ATM adaptation layers. Explain in detail the AAL1 and
AAL2 layers [10]
4. a) Explain the Autonomous systems concept and explain EGP in detail [10]
- b) Explain different traffic descriptors used in ATM [5]
- c) Explain the naming scheme used in SNMP [5]
5. a) What is the main function of DVMRP? How does it differ from RIP and OSPF? [10]
- b) List different queuing models .Explain one in detail. [10]
6. a) What is RSVP? What are features of RSVP? How RSVP work?
Give its frame format. [10]
- b) Explain TCP segment with header format. [10]
7. Write short note on any two of following [20]
 - a) MIB
 - b) Queue Management Algorithms
 - c) IP Multicasting
 - d) X.25