



T.E. (COM P) Sem VI (Rev) 31/5/2012

ACN

1 : 1st half-12-(Con-4543)JP

Con. 4543-12.

GN-8627

(3 Hours)

[ Total Marks : 100

- N.B.** (1) Question No. 1 is **compulsory**.  
(2) Attempt any **four** questions from remaining.  
(3) Draw diagrams wherever **required**.

1. (a) Explain different protocols used in each layer of TCP/IP protocol suite. 10  
(b) Explain Autonomous system and list routing protocols used inside and across Autonomous system. 5  
(c) Explain different traffic descriptor used in ATM. 5
  2. (a) List connecting devices used in each layer. Explain each with example. 10  
(b) What are different multicast routing protocols ? Explain DUMRP in detail. 10
  3. (a) Draw and explain functions of ATM layers. Explain in detail AAL1 and AAL5. 10  
(b) Explain how network management is done using SNMP, SMI and MIB. 10
  4. (a) Explain RIP unicast routing protocol with example. 10  
(b) Explain the SONET frame structure. 10
  5. (a) Describe different delay components in communication network. Explain M/M/1 queuing system. 10  
(b) What is RTP ? Explain RTP frame format in detail. 10
  6. (a) Explain how DWDM achieves high data rate transmission. What are advantages and disadvantages of DWDM over SONET ? 10  
(b) Explain different delay components in communication networks. Which parameters can affect the delay. 10
- Write short note on :— (any two) 20
- (a) X-25
  - (b) Network Address Translation
  - (c) RSUP
  - (d) IP over ATM.