(2) IT – Computer – ACN – sem VI

2

(OLD COURSE)

Q.P. Code : 4329

(3 Hours) **[Total Marks : 100**

N.B. : (1) Question number **I** is **compulsory.**
(2) Solve any **four** questions out of the remaining **six** questions

1. (a) Explain in detail Multi Protocol Label switching (MPLS) **10**
   (b) Explain SONET frame structure. **10**

2. (a) Explain in detail the architecture of ATM. **10**
   (b) With respect to IP Address design issues, explain subnetting, supernetting, CIDR and NAT. **10**

3. (a) Explain the relevance of traffic engineering and capacity planning to network design process. **10**
   (b) Explain various QoS paramenters in case of ATM **10**

4. (a) Compare IPV4 and IPV6 giving the details of class based addressing scheme of IPV4. **10**
   (b) Explain the networking & internetworking devices. **10**

5. (a) Explain any one unicast Routing protocol **10**
   (b) Explain M/M/1 queuing system. **10**

6. (a) Explain SNMP protocol in detail. **10**
   (b) Explain the principles of DWDM and its hardware requirements. **10**

7. Write short notes on any **two** of the following: **20**
   (a) packet filtering
   (b) Requirements of Backbone Network Design.
   (c) X.25
   (d) Traffic Descriptors
