

3 hrs.

80 marks

NB :

1. Question 1 is compulsory
2. Attempt any 3 questions out of the remaining questions.
3. Assume suitable data whenever required

- Q1) **Any 4**
- a) Compare and contrast RIP and OSPF **5**
 - b) Compare IPV4 and IPV6 **5**
 - c) Compare X.25 with X.75 **5**
 - d) Compare Exterior and Interior Routing Protocols **5**
 - e) Compare integrated and differentiated services **5**
- Q 2) a) Explain SONET/SDH Structure in detail **10**
- b) Explain ATM reference model **10**
- Q 3) a) Why traditional routing algorithms cannot be used for Multicasting. Explain one protocol **10**
- b) Explain SNMP and its MIB structure **10**
- Q4) a) Explain Session Control Protocol H.323 **10**
- b) What are the various Time Delay consideration taken into account while doing engineering for a traffic network?
- Q5) a) Explain Queuing model and its uses for traffic engineering. Explain M/M/1 queuing model in detail. **10**
- b) Explain the working of MPLS Networks. **10**
- Q6) **Any 2** **20**
- a) RSVP
 - b) IGMP
 - c) IP over ATM
