

[Time: **THREE Hours**]

[Max. Marks: **80**]

"Please check whether you have got the right question paper."

N.B

- 1) *Question no 1 & 6 are compulsory.*
- 2) *Answer two question from section A and section B from the remaining questions.*

SECTION A

- Q.1 Answer any five questions. 10
- a) What is subnet addressing?
 - b) What are five class () of IP addresses?
 - c) What are routing tables?
 - d) What are flow characteristics?
 - e) What are VP's, VC's, TP's and cell?
 - f) What is internetworking?
 - g) What is admission control?
 - h) What is buffering?
- Q.2 a) What is the need of routing algorithm.? Explain and write Bellman-ford algorithm. 07
- b) With neat diagram explain transition from IPV4 to IPV6. 08
- Q.3 a) What are different approaches of control and explain any one of them in detail. 08
- b) What is traffic shaping? Explain token bucket algorithm technique. 07
- Q.4 a) What are the service class() of quality of service in ATM? Explain. 07
- b) With neat diagram explain different ATM LAN architecture. 08
- Q.5 Write short notes on (any 3) 15
- a) Routing protocol and algorithm
 - b) Multicasting and broad casting.
 - c) Interior gateway routing protocol
 - d) Differentiated services.

SECTION B

- Q.6 Answer any five 10
- a) Write IANA ranges.
 - b) What is socket address?
 - c) What are real time transport protocols?
 - d) What is half closure in TCP?
 - e) What are mail transfer agents in TCP.
 - f) What is encapsulation and decapsulation?
 - g) Write RTP header format.
 - h) Write RTP message types.
- Q.7 a) Explain connection establishment and termination in TCP. 08
- b) Explain stream control transmission protocol(SCTP) 07
- Q.8 a) Explain address resolution mechanism in the internet. 08
- b) Explain the functions of network management features. 07
- Q.9 a) With neat diagram explain name space. 08
- b) Explain session invitation protocol (SIP) 07
- Q.10 Write short notes (any 3) 15
- 1) File transfer protocol
 - 2) H-323 protocol
 - 3) E-mail.
 - 4) TCP header format.