

“Please check whether you have got the right question paper.”

i) Q No.1 and Q No.6 are compulsory.

ii) Answer any two question each, from section-A and section B from the remaining questions

**SECTION-A**

- Q.1 Answer any five questions 10
- a) List out the application layer protocols in TCP/IP protocol suite
  - b) Differentiate between congestion control and flow control.
  - c) What is choke packet?
  - d) What is LAN emulation?
  - e) What do you mean by flooding?
  - f) What is area in Anonymous system?
  - g) What is ARP?
- Q.2 a) What is the function of OSPF protocols? 07  
b) Explain the different forwarding techniques. 08
- Q.3 a) Explain the distance vector routing algorithm in detail. 08  
b) Describe network layer design issues. 07
- Q.4 a) Explain leaky bucket algorithm . 07  
b) Which are the two header formats of ATM ?Explain with diagram . 08
- Q.5 Write a short note on any three 15
- a) IP address
  - b) Differentiated services
  - c) QOS
  - d) RIP
  - e) AAL 3/4

**SECTION –B**

- Q.6 Answer any five questions 10
- a) Write the primitives of simple transport service .
  - b) What do you mean by socket address ?
  - c) What is the maximum size of Top header ?
  - d) What are domains ?
  - e) What do you mean by recursive resolution ?
  - f) What is remote logging ?
  - g) What is SNMP?
- Q.7 a) Explain flow control and error control in TCP. 08  
b) Are both UDP and ID protocols reliable to the same degree ?Why on why not? 07
- Q.8 a) Explain the half close condng in the TCP process by drawing heat labeled diagram . 08  
b) Differentiate between hierarchical name space and flat name space 07

- Q.9 a) Explain the functions of network management system . 08  
b) In electronic mail ,why do we need POP3 and SMTP. 07
- Q.10 Write short note on (any three) 15  
a) Telnet  
b) SCTP  
c) RIP  
d) Port-address