

GUJARAT TECHNOLOGICAL UNIVERSITY**BE SEM-VIII Examination May 2012****Subject code: 180704****Subject Name: Advance Computer Networks (Department Elective - I)****Date: 16/05/2012****Time: 10.30 am – 01.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain ATM cell header format. **07**
(b) Write a short note on SONET network. **07**
- Q.2** (a) List and explain five commands to configure router. **07**
(b) Explain function of VP and VPC switches in ATM. **07**
- OR**
- (b) Explain time division multiplexing in ATM. **07**
- Q.3** (a) Explain various layer of X.25 packet switching network. **07**
(b) Create LAN(Local Area Network) in which show interconnection of 5 host, 2 hub and one switch. Assign appropriate IP addresses to required devices. **07**
- OR**
- Q.3** (a) Create WAN (wide area network) connecting five routers. Assign appropriate IP address to each router port. **07**
Show router configuration command for setting up RIP or OSPF protocol.
(b) Explain classful IP addressing scheme. **07**
- Q.4** (a) Discuss protocols associated with layers of TCP/IP protocol suite. **07**
(b) With example explain sub netting. **07**
- OR**
- Q.4** (a) Show & explain various fields of IP (internet protocol) Datagram. **07**
(b) Describe working of Routing information protocol(RIP). **07**
- Q.5** (a) Explain functionality of ARP and RARP protocol. **07**
(b) Write a short note on SNMP(standard network management protocol). **07**
- OR**
- Q.5** (a) Write a short note on SAN(storage area network). **05**
(b) Give & explain traffic characteristics. **05**
(c) Explain real time transport protocol(RTP), **04**
