

GUJARAT TECHNOLOGICAL UNIVERSITY**BE – SEMESTER VIII • EXAMINATION – WINTER - 2013****Subject code: 183205****Date: 09-05-2013****Subject Name: Advance Networking Protocols****Time: 10:30 am to 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 the structure of SONET with diagram. **07**
 (b) Describe ATM Adaptation Layer with AAL1 and AAL2 protocols. **07**
- Q.2** (a) Describe the Header format and features of TCP. **07**
 (b) Explain the working of Packet Switching? Classify the methods of Packet Switching. **07**
- OR**
- (b) Explain X.25 with its architecture. **07**
- Q.3** (a) Describe BGP with its characteristics. **07**
 (b) Explain the drawbacks of Traditional Routing methods and how the Traffic Engineering resolve it? **07**
- Q.3** (a) Explain the Storage Area Networks. **07**
 (b) Explain the problems occur in RIP and mention the techniques to resolve them. **07**
- Q.4** (a) Explain the Network Management Architecture. **07**
 (b) Explain the requirements of Traffic Engineering. **07**
- OR**
- Q.4** (a) Describe SNMP. **07**
 (b) Explain the terms with respect to Traffic Engineering. **07**
 (1) Availability (2) Reliability (3) Maintainability (4) Jitter
 (5) PPS (6) FPS (7) CPS
- Q.5** (a) Explain VoIP. Enlist the Voice Digitization Standards used in VoIP. **07**
 (b) Explain the categories of Multimedia Services. What are the changes required in existing Internet to provide multimedia services? **07**
- OR**
- Q.5** (a) What is Multicasting? Explain the method for mapping of IP Multicast to MAC layer multicast. **07**
 (b) Explain Bluetooth Protocol Stack. **07**
