

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII • EXAMINATION – SUMMER 2014****Subject Code: 180704****Date: 29/05/2014****Subject Name: Advance Computer Networks****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 optical networking with its benefits and drawbacks. **07**
(b) Explain working of DWDM and network configuration in DWDM. **07**
- Q.2** (a) Explain ATM reference model. **07**
(b) What are the needs of packet switching? Explain working of packet switching and also methods for packet switching. **07**
- OR**
- (b) Explain SONET Layered architecture and Frame format for SONET. **07**
- Q.3** (a) Explain Architecture of X.25. **07**
(b) Explain IP Addressing using Classful and Classless Addresses. **07**
- OR**
- Q.3** (a) Explain Internet Control Message protocol with message types, Message format and Error reporting. **07**
(b) What is Socket? List down the advantage of using socket interface and Explain TCP Socket. **07**
- Q.4** (a) Write a Short note on Dynamic Host Configuration protocol. **07**
(b) Explain Open Shortest Path First Protocol. **07**
- OR**
- Q.4** (a) Explain Storage Area Network with its Architecture. **07**
(b) Explain Traffic Characteristics in details. **07**
- Q.5** (a) Explain working, implementation and features of RSVP protocol **07**
(b) Write a Short note on STP(Spanning Tree Protocol) **07**
- OR**
- Q.5** (a) Describe working of RIP protocol and compare with IGRP. **07**
(b) Write a Short note on RTP and SIP Protocol. **07**
