

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII EXAMINATION – SUMMER 2016****Subject Code:180704****Date:18/05/2016****Subject Name:Advance Computer Networks (Department Elective - II)****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) Discuss benefits and drawback of optical networking. **07**
 (b) Explain working of DWDM and network configuration in DWDM. **07**
- Q.2** (a) Discuss the functions of each SONET layer. What is the relationship between SONET and SDH? **07**
 (b) Explain the functions of ATM adaption layers with ALL1 and ALL2 in details **07**
- OR**
- (b) Explain in detail TCP/IP Protocol suite **07**
- Q.3** (a) Discuss the benefits of using ATM technology **07**
 (b) Write a short note on: Virtual Circuit Packet Switching. **07**
- OR**
- Q.3** (a) Explain ATM header cell format. **07**
 (b) Write a short note on: X.25 **07**
- Q.4** (a) List and explain various QoS and Traffic parameters used in ATM networks **07**
 (b) What is multimedia over Internet? Explain VOIP. **07**
- OR**
- Q.4** (a) Write a short note on SNMP (Standard Network Management Protocol). **07**
 (b) Explain BGP (Border Gateway Protocol) routing protocol. **07**
- Q.5** (a) Write a Short note on Dynamic Host Configuration protocol **07**
 (b) Compare and contrast ATM and MPLS networks. **07**
- OR**
- Q.5** (a) Explain availability, reliability and maintainability of a network in detail. **07**
 (b) Explain Open Shortest Path First Protocol. **07**
