Seat No.: _____ Enrolment No._____

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**

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