Seat No.: _____ Enrolment No._____

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**

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