GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VIII (Old) EXAMINATION – WINTER 2019

Subject Code: 180704 **Date: 29/11/2019**

Subject Name: Advance Computer Networks

Time: 02:30 PM TO 05:00 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)**	What is the relationship between SONET and SDH? Describe DWDM in detail.	**07**
	(b)	Explain optical networking with its benefits and drawbacks.	**07**
Q.2	**(a)**	Discuss the benefits of using ATM technology.	**07**
	(b)	Explain SONET Layered architecture and Frame format for SONET.	**07**
		OR	
	(b)	Explain the different traffic descriptors used in ATM.	**07**
Q.3	**(a)**	Compare static and dynamic routing.	**07**
	(b)	Explain in detail TCP/IP Protocol suite.	**07**
		OR	
Q.3	**(a)**	Write different equipment used in X.25 and explain architecture of X.25.	**07**
	(b)	Describe the multiprotocol label switching's (MPLS's) working and operation? Compare MPLS with ATM network	**07**
Q.4	**(a)**	Write a Short note on Dynamic Host Configuration protocol.	**07**
	(b)	Write a short note on SNMP (Standard Network Management Protocol).	**07**
		OR	
Q.4	**(a)**	Explain OSPF (Open shortest path first Protocol) dynamic routing protocol.	**07**
	(b)	Explain Error control in UDP.	**07**
Q.5	**(a)**	Write a short note: VOIP	**07**
	(b)	Describe in detail about multi-protocol label switching	**07**
		OR	
Q.5	**(a)**	Explain availability, reliability and maintainability of a network in detail.	**07**
	(b)	Write a short note on SAN(Storage Area Network).	**07**

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