	•	GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER–VIII (Old) EXAMINATION – WINTER 2019 Code: 180704 Date: 29/11/201	9	
Subject Name: Advance Computer Networks Time: 02:30 PM TO 05:00 PM Total M Instructions:			/Iarks: 70	
1115	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	What is the relationship between SONET and SDH? Describe DWDM in detail.	07	
	<b>(b)</b>	Explain optical networking with its benefits and drawbacks.	07	
Q.2	(a)	Discuss the benefits of using ATM technology.	07	
	<b>(b</b> )	Explain SONET Layered architecture and Frame format for SONET.	07	
		OR		
	(b)	Explain the different traffic descriptors used in ATM.	07	
Q.3	<b>(a)</b>	Compare static and dynamic routing.	07	
	<b>(b)</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>(b)</b>	Describe the multiprotocol label switching's (MPLS's) working and operation?	07	
		Compare MPLS with And network		
Q.4	<b>(a)</b>	Write a Short rose on Dynamic Host Configuration protocol.	07	
	<b>(b)</b>	Write a short note on SNMP (Standard Network Management Protocol).	07	
		OR		
Q.4	<b>(a)</b>	Explain OSPF (Open shortest path first Protocol) dynamic routing protocol.	07	
	<b>(b)</b>	Explain Error control in UDP.	07	
Q.5	(a)	Write a short note: VOIP	07	
	<b>(b)</b>	Describe in detail about multi-protocol label switching	07	
		OR		
Q.5	<b>(a)</b>	Explain availability, reliability and maintainability of a network in detail.	07	
	<b>(b)</b>	Write a short note on SAN(Storage Area Network).	07	

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