GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VIII(OLD) • EXAMINATION – WINTER 2017

	U	t Code: 180704 Date: 15-11-20 t Name: Advance Computer Networks	Date: 15-11-2017	
Tiı	Time: 02:30 pm to 05:00 pm Total Marks Instructions:			
		Attempt all questions. Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	What is the relationship between SONET and SDH? Describe DWDM in detail. Explain the ATM reference model and explain what the various services are provided by it.	07 07	
Q.2	(a) (b)	Write different equipment used in X.25 and explains architecture of X.25. Compare Intra domain and Inter Domain routings. OR	07 07	
	(b)	Explain Internet Control Message protocol with message types, Message format and Error reporting.	07	
Q.3	(a)	What is count to infinity (routing loop) problem? Discuss possible solutions to reduce count to infinity problem.	07	
	(b)	Discuss protocols associated with layers of TCP/IP protocol suite. OR	07	
Q.3	(a)	Describe working of Routing information protocol (RIP) and compare with IGRP.	07	
	(b)	Explain functionality of ARP and RARP protocol.	07	
Q.4	(a) (b)	Explain working, implementation and features of RSVP protocol. Compare IPV4 and IPV6 with their header format. OR	07 07	
Q.4	(a) (b)	Write short note on OSPF (open shortest path first) algorithm. What is Multiprotocol Label Switching? Explain its working and operation.	07 07	
Q.5	(a)	Explain availability, reliability and maintainability of a network in detail for network management.	07	
	(b)	Write and explain commands to configure router. OR	07	
Q.5	(a) (b)	Explain IP Addressing using Classful and Classless Addresses. Describe BGP (Border Gateway protocol) in detail.	07 07	
