eat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - VIII.EXAMINATION - WINTER 2016

Su Tii	bject me: () truction 1.	Attempt all questions. Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	i) What is the Network ID, Broadcast Address, and first & last valid IP on the subnetwork that the host 192.168.1.15/26 belongs to?	07
		ii) How many subnets and hosts per subnet can you get from the network 172.168.21.0 255.255.255.224?	
	(b)	What is the relationship between SONET and SDH? Describe DWDM in detail.	07
Q.2	(a)	Explain the ATM reference model and explain what are the various services provided by it.	07
	(b)	List and explain various QoS and Traffic parameters used in ATM networks. OR	07
	(b)	Draw and Explain SDH Frame structure.	07
Q.3	(a) (b)	Write different equipment used in X.25 and explain architecture of X.25. Give header format of Real Time Transport Protocol and its working. OR	07 07
Q.3	(a) (b)	Explain Subscriber interface and Access Protocols in SMDS. Explain Error control in UDP.	07 07
Q.4	(a)	Describe the multiprotocol label switching's working and operation? Compare MPLS with ATM network.	07
	(b)	Write a short note on SNMP(Standard Network Management Protocol). OR	07
Q.4	(a)	Explain business requirement, technical requirement and challenges in traffic engineering.	07
	(b)	Show & explain various fields of IP (internet protocol) Datagram.	07
Q.5	(a) (b)	Describe BGP (Border Gateway protocol) in detail. Write short note on spanning tree protocol.	07 07
		OR	
Q.5	(a) (b)	Write short note on IGRP(Interior Gateway Routing Protocol). Write a short note on SAN(Storage Area Network).	07 07
