Seat No.: _____ **Enrolment No._____**

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VI (NEW) - EXAMINATION – SUMMER 2017

Subject Code: 2163205 **Date: 08/05/2017**

Subject Name: Advance Networking Protocols

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.**

			MARKS
Q.1		**Short Questions**	**14**
	1	Write the function of path layer.	
	2	List out the SONET layer	
	3	Why we use SDH?	
	4	What is the Cell Size in ATM?	
	5	Principal of Packet switching technique.	
	6	Give the port number for HTTPS.	
	7	ICMP works at which layer?	
	8	What is the administrative distance of RIP and IGRP?	
	9	Define Jitter.	
	10	Define SAN.	
	11	Which basic protocol is used by traffic engineering?	
	12	Define SNMP.	
	13	Basic Functionality of MIME.	
	14	Define VOIP.	
Q.2	**(a)**	Give the application of Optical Network.	**03**
	(b)	Draw and explain SDH Frame Structure.	**04**
	(c)	Discuss the benefits of using ATM technology.	**07**
		OR	
	(c)	Explain ATM Cell header format.	**07**
Q.3	**(a)**	Discuss the various methods of used for packet switching.	**03**
	(b)	Explain the architecture of X.25 in details.	**04**
	(c)	Explain in detail TCP/IP Protocol suite.	**07**
		OR	
Q.3	**(a)**	Write a short note on: Virtual Circuit Packet Switching.	**03**
	(b)	Give the difference between inter-domain and Intra-domain routing.	**04**
	(c)	Explain OSPF in Detail.	**07**
Q.4	**(a)**	Give the characteristics of traffic engineering.	**03**
	(b)	Explain Concept of IP over ATM	**04**
	(c)	Explain MPLS Label Header format.	**07**
		OR	
Q.4	**(a)**	Write a short note on SNMP.	**03**
	(b)	Write a short note on Traffic Sizing.	**04**
	(c)	Explain BGP routing protocol.	**07**
Q.5	**(a)**	Discuss DHCP and its working.	**03**
	(b)	Discuss FTP in detail.	**04**
	(c)	Write a short note on SAN.	**07**

OR

Q.5	**(a)**	Explain Availability, reliability, and Maintainability of a network in detail.	**03**
	(b)	Write a short note : VOIP	**04**
	(c)	Explain Bluetooth architecture. And also list out its application.	**07**

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