Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER– VI (New) EXAMINATION – WINTER 2019

Subject Code: 2163205   **Date: 12/12/2019**

Subject Name: Advance N/w Protocols

Time: 02:30 AM 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.**

			MARKS
Q.1	(a)	List out the limitations of Optical Network.	03
	(b)	Draw IPv4 Header Format.	04
	(c)	Draw and explain B-ISDN reference model.	07
Q.2	(a)	Explain the purpose of DNS.	03
	(b)	Explain the architecture of X.25 in details.	04
	(c)	Write a short note on Routing Information Protocol (RIP).	07
		OR	
	(c)	Explain the working of Dense Wavelength Division Multiplexing with it's advantages and disadvantage.	07
Q.3	(a)	Explain functionality of ARP and RARP protocol.	03
	(b)	Define Packet Switching. Explain Datagram packet switching in detail.	04
	(c)	List and Explain the QoS performance parameters that have been defined in ATM Standards.	07
		OR	
Q.3	(a)	Write a short note on: Virtual Circuit Packet Switching.	03
	(b)	Explain Post Office Protocol with its drawback.	04
	(c)	Draw ATM cell header formats. Explain each field in detail.	07
Q.4	(a)	Give difference between Static and Dynamic Routing.	03
	(b)	List and explain the real-time problems faced in Multimedia networking.	04
	(c)	Explain the purpose and structure of Managed Information Based (MIB).	07
		OR	
Q.4	(a)	Differentiate inter-domain and Intra-domain routing.	03
	(b)	Give the Characteristics of Border Gateway Protocol (BGP).	04
	(c)	At what layer SNMP operates? Explain it's functionality in detail.	07
Q.5	(a)	What is multimedia over Internet? Define VOIP.	03
	(b)	What Is a Storage Area Network (SAN)? Explain in brief.	04

	(c)	Draw and Explain the frame format in Bluetooth technology.	**07**

OR

Q.5	**(a)**	Write applications of Bluetooth.	**03**
	(b)	Describe the working of MPLS.	**04**
	(c)	With reference to Traffic Engineering, define the following terms. Delay, Jitter, Throughput, Availability, Reliability and Maintainability.	**07**

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