	EHIOHIII	cnt No:C.U.SHAH	Exam Seat No: UNIVERSITY		_		
	Winter Examination-2018						
	Subject Name: Next Generation Networks						
	Subject Code: 4TE07NGN1		Branch: B.Tech (IT)				
	Semester	: 7 Date: 01/12/2018	Time: 10:30 To 01:30	Marks: 70			
	(2) I (3) I	ns: Use of Programmable calculator & an enstructions written on main answer boraw neat diagrams and figures (if ne assume suitable data if needed.	ook are strictly to be obeyed.	rohibited.	_		
Q-1	a) b) c) d) e) f) g) h) i) k) l) m) n)	Attempt the following questions List out the key elements of Protocol. How many bytes are used in IPV6? Why UDP is called connectionless protocol? Define the criteria for best path selection of a router? MPLS works on which layer? What is the difference between a Domain and a Workgroup? What is meant by 127.0.0.1 and local host? What is the difference between Internet, Intranet, and Extranet? Which transport layer protocols used for real time multimedia, file transfer, DNS and email? How a Switch is different from a Hub? Explain the difference between baseband and broadband transmission? What is DHCP and why it is used? What is bootp forwarding? What is the default subnet mask of Class C? four questions from Q-2 to Q-8					
Q-2	}	Attempt all questions					
	a)b)	Explain in detail TCP/IP Protocol st Explain working, implementation as			(07) (07)		
Q-3	a) b)	Attempt all questions Describe working of Routing inform IGRP. Explain TCP Client Server Procedu		re with	(07) (07)		
Q-4	a)	Attempt all questions Explain UDP Header with suitable of	diagram.		(07)		



	b)	What is IP address? Explain different classes of IP address.	(07)
Q-5		Attempt all questions	
	a)	What is Multiprotocol Label Switching? Explain its working and operation.	(07)
	b)	Define Daemon Process? Explain Syslog Procedure with suitable diagram.	(07)
Q-6		Attempt all questions	
	a)	What is the difference between the delivery of a frame in the data link layer and the delivery of a packet in the network layer? Explain the functionalities of the network layer. Explain IP headers.	(07)
	b)	List and explain five commands to configure router.	(07)
Q-7		Attempt all questions	
	a)	What is Socket? List down the advantage of using socket interface and Explain TCP Socket.	(07)
	b)	Explain State Transition diagram for Transport layer.	(07)
Q-8		Attempt all questions	
	a)	Explain subnetting with an example.	(07)
	b)	Explain and difference between IPV4 and IPV6.	(07)

