## Paper / Subject Code: 89363 / Computer Communication Networks

Duration: 3hrs		n: 3hrs [Max Marks: 80]	[Max Marks: 80]	
N.B.:	(2	Question No 1 is Compulsory.  Attempt any three questions out of the remaining five.  All questions carry equal marks.  Assume suitable data, if required and state it clearly.		
Q1.		Attempt any FOUR	[20]	
	a	Differentiate between OSI and TCP/IP Reference Model	[05]	
	b	Explain IEEE 802.3 frame structure with the help of suitable diagram	[05]	
	c	Explain in brief Stop and Wait ARQ Protocol with the help of suitable diagram	[05]	
	d	Explain in brief the I-frame, S-Frame and U-Frame of HDLC frame format	[05]	
	e	Explain Closed Loop Congestion Control Technique	[05]	
Q2.		Differentiate between LAN, MAN WAN Explain the various Physical Layer Interconnecting Devices with the help of suitable diagram	[10] [10]	
Q3.	a	Explain Synchronous Time Division Multiplexing & list the drawbacks of Synchronous Time Division Multiplexing	[10]	
Q4.	a	Explain CSMA/CD & list the advantages & disadvantages of CSMA/CD Explain the principle of packet switching and list the advantages and disadvantages of packet switching	[10] [10]	
187°		Explain IPV4 Header Format with the help of suitable diagram	[10]	
Q5.	a		[10]	
Q6.		Explain Crossbar Switch with the help of suitable diagram Write a short note on Hypertext Transfer Protocol (HTTP) in application layer with the help of suitable diagram	[10] [10]	
S. B.	b	Explain Domain Name System (DNS) in application layer with the help of suitable diagram	[10]	