		<b>Neg.</b> 110									
		Question Pape	er Co	de: 54	204						
	В.	E. / B.Tech. DEGREE I	EXAM	INATIO	DN, N	JOV	201	9			
		Fourth	Seme	ster							
		Computer Scien	ce and	Engine	ering	,					
	15UCS40	4- COMPUTER COM	MUNI	CATIO	N AN	ID N	JETV	WOF	RKS		
		(Regula	ation 2	015)							
Dura	tion: Three hours						Ma	ximı	ım: 1	00 N	Mark
		Answer A	LL Qu	estions							
		PART A $-$ (5	5 x 1 =	5 Mark	s)						
1.	For real time multimedia, file transfer, DNS and email, the transport CO layer protocols used are respectively										
	(a) TCP, UDP, TCP and UDP (b) UDP, UDP, TCP and TCP										
	(c) UDP, TCP, UI	DP and TCP	(d)	TCP, 7	CP,	UDI	P and	1 UD	P		
\2.	Ethernet = 10Mbps, Jamming signal = 48bit, Round trip propagation CO delay = 46.4µs, minimum frame size =?										
	(a) 512	(b) 440	(c)	100					(d) 1	024	
3.	In an IP datagram because	one of the header fiel	ds is ti	me to l	ive ('	ΓTL	) fie	ld			CO3
	(a) It can be used to prevent packet looping										
	(b) It can be used to optimize throughput										
	(c) It can be used to reduce delays										
	(d) It can be used to prioritize packets										
4.	The network layer concerns with								CO		
	(a) Bits	(b) Frames	(c)	Packet	S				(d) D	)atag	rams
5.	For the application layer in the Internet stack, the protocol data unit (PDU) is CO										

6.	Define : Bandwith and Latency										
7.	Draw Ethernet frame format										
8.	How router differ from bridge?										
9.	Con		CO4-U								
10.	Wri	te the use of HTTP.		CO5-U							
PART – C (5 x 16= 80Marks)											
11.	(a)	List the layers of OSI model and elaborate the functionalities of each layer	CO1-R	(16)							
	Or										
	(b)	With neat diagram explain the TCP/IP Protocol suite	CO1-R	(16)							
12.	(a)	What is the need for error detection? Explain the methods used for error detection with typical example.	CO2-U	(16)							
	(b)	Explain the working of CSMA/CD along with the physical properties and coding methods on Ethernet	CO2-U	(16)							
13.	(a)	Explain any four connecting devices in detail. Or	CO3-R	(16)							
	(b)	Explain the architecture of ATM along with its design goals and problems faced	CO3-U	(16)							
14.	(a)	Explain in detail (i) ICMP (ii) IGMP	CO4-U	(16)							
	(b)	Or Explain about IPv6? Interpret the Header format of the same and Compare the versions of IPv4 and IPv6.	CO4-U	(16)							
15.	(a)	Define Congestion control. Describe in detail about the congestion control techniques of TCP in detail.	CO5-U	(16)							
	(b)	What is Domain Name System (DNS)? Describe the hierarchical tree structure of the same.	CO5-U	(16)							