Total No.	of Questions	: 8	8]
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SEAT No.:	
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P3112

[Total No. of Pages: 2

P.T.O.

[5354]-602 B.E. (E & TC) (End Semester) COMPUTER NETWORKS (2012 Pattern)

(2012 1 accern)					
Time: 2½ Hours] [Max. Marks: 7					
Instr	uctio	ns to the candidates :			
	1)	Answer Q.1 or Q.2, Q.3 or Q4, Q.5 or Q6, Q.7 or Q.8.			
	2)	Neat diagrams must be drawn wherever necessary.			
	3)	Figures to the right side indicate full marks.			
	4)	Assume Suitable data if necessary			
Q 1)	a)	State the names of different layers in OSI Model and explain functions	of		
			7]		
	b)		7]		
	c)	Draw the neat diagrams & explain Bus Backbone network & St	ar		
		Backbone networks.	6]		
		OR			
Q 2)	a)	Draw TCP/IP protocol suite. List with example, addresses present	at		
		each layer.	7]		
	b)	What are the common standard fast Ethernet implementations? Explain.	7]		
	c)	Explain Bluetooth frame format.	6]		
Q3)	a)	Explain IPv4 classful addressing and state its disadvantages.	6]		
	b)	Write short notes on	6]		
		i) ARP			
		ii) RARP			
	c)	Explain different multicast routing protocols.	6]		
		OR			
Q4)	a)	Draw and explain the header format for IPv6.	6]		
	b)	Give general format of ICMP and explain different types of error reporting	ng		
		messages used in ICMP.	6]		
	c)	Write short notes on DHCP.	6]		

Q5)	a)	Compare between TCP and UDP. Under what circumstances you use them.	
	b)	What are four general techniques used to improve quality of service in network? Explain. [8]	
		OR	
Q6)	a)	Explain the TCP Connection management in Client/Server model. [6]	
	b)	Write a short note on congestion control. [6]	
	c)	Draw and explain UDP frame format. [4]	
Q7)	a)	List various Application layer protocols in TCP/IP and state significance of each. [6]	
	b)	State & explain different domains in DNS. [6]	
	c)	Explain the RSA algorithm. Also brief its limitations. [4]	
		OR	
Q8)	a)	What are the main responsibilities of Application Layer? Explain in brief. [6]	
	b)	Describe the functions of the FTP connections. Explain what kinds of file types FTP can transfer? [6]	
	c)	What is entity authentication? What are different authentication methods? Explain. [4]	

