Total No. of Questions : 10]		SEAT No. :	
P3829	[5561]-250	[Total No. of Pages : 2	

B.E. (Electronics & Telecommunication) COMPUTER NETWORKS

	COMPUTER NETWORKS	
(2012 Pattern) (Semester - I) (404182)		
Time: 2½ Hours] [Max		Marks: 70
Instruct. 1) 2) 3) 4) 5)	ions to the candidates: Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10. Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks. Use of calculator is allowed. Assume suitable data, if necessary.	
Q1) a)	Draw TCP/IP protocol suite. List with example addresses pevery layer.	present at [6]
b)	Compare circuit switching and packet switching network.	[4]
	OR	
Q2) a)	Draw the HDLC frame format. Write function of each field.	[6]
b)	Explain the fast Ethernet networks.	[4]
Q3) a)	What is IEEE 802.11? Explain wireless LAN in brief.	[6]
b)	Compare Bluetooth with Zigbee?	[4]
	OR	
Q4) a)	Write short notes on:	[6]
	i) Gateway.	
	ii) Hub.	
	iii) Routers.	
b)	What is VLAN? How it is work?	[4]

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Q5) a)	List the various protocols giving their significance at network layer. [9]
b)	Explain the various classes of IP addressing with their respective ranges. Also list the range of private IP addresses. [8]
	OR
Q6) a)	Give the classification of commonly used Unicast Routing protocols and explain Distance Vector Routing protocol with an appropriate example. [9]
b)	With the help of diagram explain IPv4 header format in detail. [8]
Q7) a)	What are the duties of transport layer? List the services provided by transport layer to upper layers. [8]
b)	Explain connection establishment and connection releasing with respect to transport layer. [5]
c)	What is socket address? Explain. [4]
	OR
Q8) a)	Draw the TCP header, Explain the function of each field. [8]
b)	Explain QoS at transport layer, Also write about transport layer service primitives. [9]
Q9) a)	Explain: FTP and Telnet protocols. [6]
b)	What is DNS? Explain the components of DNS system. [6]
c)	What is URL and what are its component. [4]
	OR
Q10) a)	What are the main responsibilities of Application layer? Explain in brief [6]
b)	Explain the RSA algorithm. [6]
c)	Write short note on electronic mail system. [4]



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