48)

Total No. of Questions: 12]

P3153

SEAT	No.	:					
	Tota	ıl	No.	of	Pages	:	2

B.E. (Electronics Engineering) (Semester - II) COMPUTER NETWORK & SECURITY (2008 Pattern)

Time: Instru 1 2 3 4 5	(ction () A () A () A () N	[Max. Marks: as to the candidates: Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 from Section - I Attempt Q.7 or Q.8, Q.9 or Q.10, Q.11 or Q.12 from Section - II. Answers to the two sections should be written in separate books. Neat diagrams must be drawn whenever necessary. Assume suitable data, if necessary.	100				
SECTION - I							
Q1)	a)	Explain How do the layers of the TCP/IP model correlate to layer OSI Model					
	b)	Explain in brief physical address, network address & port address	[6] [6]				
	c)	Explain X.25 Protocol	[4]				
0.21		OR					
Q2)	a)	Explain the OSI Reference model	[4]				
	b)	Compare LAN, MAN, and WAN	[6]				
	c)	What are the software Design issues for layer architecture	[6]				
Q3)	a)	Explain the following	[8]				
		i) Telnet					
		ii) SNMP					
	b)	Explain how DNS Server works	[8]				
		OR					
Q4)	Att	tempt any four	[16]				
	a)	Socket programming					
	b)	HTTP					
	c)	BOOTP					
	d)	SMTP					
	e)	P2P file sharing					

Q5)	a)	a) What is routing? What are the types of routing? Explain the shor routing algorithm?	
	b)	Compare Ipv4 and Ipv6	[6]
	c)	What are the advantages and Disadvantages of UDP protocol OR	[3]
Q6)	a)	What is Congestion in the Network? What are the factor that cause congestion in network? Explain leaky bucket algorithm.	
	b)	Explain with suitable diagram TCP connection Establishment, TCP data transfer and TCP connection Termination.	ata [9]
		SECTION - II	
Q7)	a)	What is framing? Explain bit oriented protocol.	[8]
	b)		[8]
Q8)	a)	Explain HDLC Protocol	[8]
	b)	Explain the IEEE 802.11	[8]
Q9)	a)	What is Transmission Media? Explain the Guided Transmission Media. [8]	
	b)	A channel has a B.W. Of 5 KHz and signal to noise ratio power ratio 63. Determine the Bandiwidth Needed if the S/N power ratio is reducto 31.	
	c)	Draw and Explain Electromagnetic spectrum for Wireless communication. OR	[4]
Q10)	a)	Explain DSL Technology.	[8]
	b)	Compare Circuit switching, message siwtching and packet switching.	[8]
Q11)	a)	What is Cryptography? Explain the Data Encryption standard in details.	[9]
	b)	What is asymmetric cryptography? Explain RSA Algorithm with example.	[9]
012	(2)	OR Explain the Heat Experien	[6]
Q12)		*	[6]
	b)		[6]
	c)	Explain the basics of networks security model.	[6]



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