Total No. of Questions : 10]	SEAT No.:
P3310	[Total No. of Pages :2
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B.E. (Electroni	cs & Telecommunication)

## B.E. (Electronics & Telecommunication) COMPUTER NETWORKS AND SECURITY (2015 Pattern) (Semester - I) (404182)

		(2015 Pattern) (Semester - I) (404182)	
		23 20	
Time	e : 2	½ Hours] [N	Max. Marks :70
Instr	ucti	ons to the candidates;	
-	<i>1)</i>	Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, and Q9 or Q10.	<b>S</b> .
	<i>2)</i>	Neat diagrams must be drawn wherever necessary.	
	<i>3)</i>	Figures to the right indicate full marks.	
	<i>4)</i>	Use of calculator is allowed.	
	<i>5)</i>	Assume suitable data, if necessary.	
		S. J.	
Q1)	a)	Draw TCP/IP protocol suite. List with example address every layer.	es present at [6]
	b)	Explain the Gigabit Ethernet networks.	[4]
		OR	
Q2)	a)	Explain medium access control in IEEE 802.11.	[6]
	b)	List the various protocols giving their significance at netwo	ork layer. [4]
		Sys.	
Q3)	a)	Explain remote and mobile host communication in mobile	IP. [6]
	b)	Briefly define subnetting. How do the subnet mask differ f	rom a default
		mask in classful addressing?	[4]
		OR	
<b>Q</b> 4)	a)	What is dynamic routing? Discuss distance vector routing.	[6]
	b)	List and explain different types of addresses used in IPv6.	[4]

Q5)	a)	What are the main objectives of transport layer? Explain with neat diagram process to process delivery in transport layer. [9]		
	b)	Explain connection establishment and connection termination with respet to the transport layer.	ct 8]	
		OR		
<b>Q6</b> )	a)	Draw the TCP header, Explain the function of each field.	9]	
	b)	State and explain the important features of SCTP.	8]	
<b>Q</b> 7)	a)	Explain Telnet and FTP in detail with respect to server and client communication.	nt <b>9]</b>	
	b)	What is the importance of the DNS? Explain the components of the DNS system.	ne 8]	
		OR		
Q8)	a)	How does electronic mail system work? What is the role of SMTP are POP-3 server in E-mail system?	nd 9]	
	b)	Explain how a web page is accessed through internet by a browser. [8	8]	
<b>Q9</b> )	a)	What is cryptography? Explain in brief substitution cipher an transposition cipher.	nd <b>8]</b>	
	b)	Explain the RSA algorithm with suitable example.  OR	8]	
Q10)	a)	Explain the various security features offered by PGP.	8]	
	b)	Explain the utility and security aspects in digital signature. [8	8]	
		Explain the utility and security aspects in digital signature.		