Total No. of Questions : 10]	SEAT No.:
P3310	[Total No. of Pages :2
	[5461] 562
B.E. (Electr	onics & Telecommunication)
COMPUTER	NETWORKS AND SECURITY
(2015 Patt	ern) (Semester - I) (404182)

	(2015 Pattern) (Semester - I) (404182)	
<i>Time : 2</i> :	½ Hours] [M	ax. Marks : 70
Instructi	ons to the candidates;	
1)	Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, and Q9 or Q10.	
2)	Neat diagrams must be drawn wherever necessary.	
3)	Figures to the right indicate full marks.	
4)	Use of calculator is allowed.	
5)	Assume suitable data, if necessary.	
Q1) a)	Draw TCP/IP protocol suite. List with example addresse	s present at
	every layer.	[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 networ	k layer. [4]
	S. Jan.	3.
Q3) a)	Explain remote and mobile host communication in mobile I	P. [6]
b)	Briefly define subnetting. How do the subnet mask differ from mask in classful addressing?	
	mask in classful addressing?	[4]
	OR	
Q4) a)	What is dynamic routing? Discuss distance vector routing.	[6]
b)	List and explain different types of addresses used in IPv6.	[4]

Q 5)	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 respect to the transport layer. [8]
		OR
Q6)	a)	Draw the TCP header, Explain the function of each field. [9]
	b)	State and explain the important features of SCTP. [8]
Q 7)	a)	Explain Telnet and FTP in detail with respect to server and client communication. [9]
	b)	What is the importance of the DNS? Explain the components of the DNS system. [8]
		OR ST
Q8)	a)	How does electronic mail system work? What is the role of SMTP and POP-3 server in E-mail system? [9]
	b)	Explain how a web page is accessed through internet by a browser. [8]
Q9)	a)	What is cryptography? Explain in brief substitution cipher and transposition cipher. [8]
	b)	Explain the RSA algorithm with suitable example. [8]
		OR
Q 10,)a)	Explain the various security features offered by PGP. [8]
	b)	Explain the utility and security aspects in digital signature. [8]