Total No. of	Questions	: 10]
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90	SEAT No.:
30	SEAT No. :

[Total No. of Pages : 2

P3956

[5561]-651 B.E. (E&TC)

COMPUTER NETWORKS & SECURITY

(2015 Pattern) (404182) (Semester - I)

	(2013 Fatterin) (101102) (Semester 1)	
Time: 2	½ Hours] [Max	c. Marks : 70
Instruct	tions to the candidates:	
1)	Answer 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.	
2)	Neat diagrams must be drawn wherever necessary.	
3)	Figures to the right indicate full marks.	
4)	Assume suitable data, if necessary.	
Q1) a)	Explain basic service set and Extended service set in WLAN	? [6]
b)	Write short note on Gigabit Ethernet.	[4]
	OR	
Q2) a)	Draw Bluetooth architecture explain function of differen	nt layer in
~ /	Bluetooth?	[6]
b)	Write short note on congestion control.	[4]
Q3) a)	Give general format of ICMP and explain different types of error	or reporting
2	messages used in ICMP?	[6]
b)	Compare IPV4 and IPV6?	[4]
	OR	
Q4) a)	Draw and explain IPV6 format?	(e) [6]
b)	What is IGMP? How does it used?	[4]
Q5) a)	Explain Flow control in Transport Layer protocols?	[7]
b)	What are differences in IP address and Port number?	[6]
c)	Explain Process to Process delivery?	[4]
,	OR	
Q6) a)	Enlist and explain SCTP services?	[7]
b)	Draw TCP header and explain function of each field?	[6]
c)	Draw and explain UDP header in details?	[4]
	Ø.V	<i>P.T.O.</i>

Q 7) a)	What are various components of DNS, explain in brief.	[5]
b)	Explain URL and operating principal of COOKIES?	[6]
c)	Explain types of Web Documents in detail?	[6]
	OR	
Q8) a)	Explain basic functions of Electronic mail.	[5]
b)	Write short note on:	[6]
ŕ	i) FTP,	
	ii) SNMP	
c)	Enlist and explain functions of Network Management System?	[6]
Q9) a)	Define cryptography and explain all types of Ciphers?	[8]
b)	Generate the Public Key and Secret Key for following prime nu	
	using RSA algorithm?	[8]
	P=3, $Q=11$, take $E=5$.	
010)	OR OR OF THE RESERVE	101
Q10) a)	What is SSL? How does it provide security at Transport Layer?	[8]
b)	Write short note on:	[8]
	i) PGP.	
	ii) Firewalls.	0-
		3
		¿Ç´
	30	
	11) Firewalls.	