Q.P. Code: 14558

		(2½ Hours)	Total Marks :	75
NR	: (1)	All questions are compulsory.		
14.15.	` '			
	(2)		P. W. W.	٠,
	(3)	Illustrations, in-depth answers and diagrams will be	appreciated.	c7
	(4)	Mixing of sub-questions is not allowed.		· K
01	20 (00)	AND CHARLES ( THEOLOGY)		ζ,
Q1.	(4)	Attempt the following (any THREE):	3	15
	(A)	address in a block of 16 addresses is 202 10 20 26. Find first & I	act C	
		address in the black	20	
8.	(B)	What are the service types specified in services field of IP4 datas	gram. 2	
10	(C)	What are the steps involved in ARP process?	The same	
	(D)	With respect to routing What is forwarding? Briefly explain diffe	exect	
•	6'	forwarding techniques.	Ų.	
	<b>(E)</b>	Explain working of BGP.	,	
	(F)	Illustrations, in-depth answers and diagrams will be Mixing of sub-questions is not allowed.  Attempt the following (any THREE): Discuss advantages of classless addressing. Suppose one of the address in a block of 16 addresses is 203.10.20.26. Find first & leaddress in the block.  What are the service types specified in services field of IP4 datase. What are the steps involved in ARP process?  With respect to routing What is forwarding? Briefly explain different forwarding techniques.  Explain working of BGP.  Write a note on RIP.  Attempt the following (any THREE):		
Q2.		Attempt the following (any THREE):		15
QZ.	(A)·	Explain categories of port addresses.		15
	(B)	State & briefly write about the phases in TCP connection.	8 5	
	(C)	What is congestion? Explain backpressure mechanism for close	loop	
	·	congestion control.		
	(D)	With respect to DNS explain FQDN & PQD		
	(E) (F)	What are the components of e-mail system?	*	
	<b>(F)</b>	Discuss the flow characteristics associated with quality of service	e.	
Q3.		Attempt the following (any THREE):		15
	(A)	Give any five measures to get protection from hacking.	727	
	(B)	Discuss authentication & confidentiality related security services	3.	
	(C)_	With example explain behavior pattern of intruders.		
	The same of the sa	What is malicious software Explain trap door & worm		
	(E)	'Audit record is fundamental tool for intrusion detection' Justify		
	(F)	What is the need of frewall? Explain role of packet filter firewal	ш.	
Q4.	8.	Attempt the following (any THREE):		15
	(A)	Encode message BEING SECURED' using additive cipher with	h key	
		7. Also explain how it will be decoded.		
	(B)	What are the components of modern Block cipher?		
	-(C)	Explain the DES function with diagram.		
	(C)	Explain the general procedure used in RSA.		
	(E) (E)	Discuss the services provided by SSL.  Compare conventional signature with digital signature.		
	/ -	7		1 5
Q5.		OAttempt the following (any THREE):		15
1411	25	Explain any 2 methods used for transition from IPv4 to IPv6.		
رح	(B)	Explain the format of user datagram.		
٠٥٠	(C)	Write note on Model for network security.	*	
3	(B)	Write a note on S-MIME. Explain DHCP in brief.	2	
^	(E) (F)	What are the approaches of intrusion detection?		
	(1)	in that are the approximation of northeaten detection;		