Faculty of Engineering & Technology and the land of th M.C.A. (Third Year) Semester-I (CGS) Examination SYSTEM ADMINISTRATION AND SECURITY (15541)(b) Some and explain the structure and working

		Paper—5 MCA 3		
Tin	ne:	Three Hours] [Maximum N	1arks	: 80
		INSTRUCTIONS TO CANDIDATES		
	(1) (2)	All questions carry marks as indicated. Due credit will be given to neatness and adequate dimensions.		
	(3)	Assume suitable data wherever necessary.		
	(4)	Illustrate your answers wherever necessary with the help of neat sketches.		
	(5)	Use pen of Blue/Black ink/refill only for writing the answer book.		
1.	(a)	State and explain the various types of attacks. I does not misigue bas and		
	(b)	What are the various security services needed for protection?		6
		Nhat is, SNMP ? Explain SNMP concept along with 'Manager' and 'Agent		
2.	(a)	Explain:		
		State and explain VACM (view based access control and notification) (i)		
		(ii) Fabrication 90		
		(iii) Masquerading. 14) same too look of the same and same company of the same same same of the same same same same same same same sam		6
	(b)	What is internet society? Explain working of:		
		What is the wall? Explana in brief goals, capabilities and limitations of the Table (ii)		
		What are the password selection strategies? Explain.		7
3.	(a)	What is MAC? Explain the structure and working of MD5.		7
	(b)	State and explain the structure and working of Diffie-Hellman key exchange	algor	ithm.
		Explain the concept of "Trusted System".		7
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4.	(a)	State and explain the structure and working of DES.	7
	(b)	Explain:	
		(i) Feistal Cipher structure	
		(ii) Public key encryption.	7
5.	(a)	State and explain the various functions of S/MIME.	7
	(b)	State and explain the structure and working of Kerberos.	7
	rei-	OR	
6.	(a)	What is PGP? State its various functions.	7
	(b)	Explain the structure and functions of X.509 authentication certificates.	7
7.	(a)	State and explain the various applications of IPsec.	6
	(b)	Explain the structure and working of IPV ₄ .	7
		OR	
8.	(a)	State and explain the architecture of SSL.	7
	(b)	Explain the scope of AH authentication.	6
9.	(a)	What is SNMP? Explain SNMP concept along with 'Manager' and 'Agents'.	6
	(b)	State and explain VACM (view based access control model).	7
		OR	
10.	(a)	Compare SNMP _{V₁} and SNMP _{V₂} protocol data units (PDU's).	7
	(b)	Distinguish between SMI and MIB.	6
11.	(a)	What is firewall? Explain in brief goals, capabilities and limitations of firewall.	7
	(b)	What are the password selection strategies? Explain.	6
		OR	
12.	(a)	What is virus? What are its parts? Explain the phases of operation of a virus.	7
	(b)	Explain the concept of "Trusted System".	6
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