Total No. of Questions: 8]			nestions: 8]	SEAT No.:			
PB3798				[Total	No. of Pages : 2		
			[6262]-57				
T.E. (Artificial Intelligence and Data Science Engineering)							
CYBER SECURITY							
(2019 Pattern) (Semester - II) (317530)							
Time: 2					Max. Marks : 70		
1)	1	Answe	er Q.Dor Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q	2.8.			
2)		(diagrams must be drawn whenever necessary.	200			
3)			neat figures wherever necessary.	3			
<i>4</i>)		_	es to the right side indicate full marks.				
5) 6)			f calculator is allowed. ne suitable data if necessary.	Y. S.			
9)	•		The summer data of reconstancy.				
Q1) a)	1	Exp	olain Public Key Cryptography.		[6]		
b)		Perf	form encryption and decryption using RSA	A algorithm f	or p=17, q=31,		
		e =	7 and $M = 2$.		[6]		
c)		Exp	plain the operations of Kerberos.		[6]		
			QR				
Q2) a)		Exp	plain operation of MD5 message digest alg	gorithm.	[6]		
b)		Use	er A and B use the Diffie-Helliman key	exchange tec	hnique with a		
		com	nmon prime $q = 71$ and a primitive root of	a=7.	[6]		
		i)	If user A has private key $X_A = 5$, what is	A's public k			
		ii)	If user B has private key $X_B = 12$, what				
		iii)	What is the shared secret key?		×		
c)		Exp	plain X.509 Authentication Service.	0 0V	[6]		
,		1	Ž	3 5			
Q3) a)		List	and explain components of IPSec proto	col	[6]		
b)		Wh	at is VPN? Explain components of VPN.	30	[6]		
c)		Exp	plain working of PGP in details.		[6]		
			OR OR				
			S.		P.T.O.		

Q4) a)	List and explain various participants involved in Secure Electronic	onic			
	Transaction (SET).	[6]			
b)	Describe the SSL protocol in details.	[6]			
c)	What is S/MIME'? What are the benefits of S/MIME?	[6]			
Q 5) a)	Explain the architecture of firewall.	[6]			
b)	What is trusted system? Explain in brief.	[6]			
c)	Difference between IDS and IPS.	[5]			
	OR				
0() -)		[7]			
Q6) a)	List and explain types of Intrusion Detection System	[6]			
b)	What is access control security service?	[6]			
c)	Describe operation of packet filtering firewall.	[5]			
	8, 2,				
0.7)		F. (1)			
Q7) a)	What is Cyber Staking.	[6]			
b)	Write short note on Mobile Hacking.	[6]			
c)	Explain Indian IT Act.	[5]			
	OR	3			
	6.7011				
Q8) a)	Explain PII impact level with examples.	[6]			
b)	Write short note on Cybercrime.	[6]			
c)	Write Advantages of cyber law.	[5]			
	X X X				
	O's so				
	6.				
Q8) a) Explain PII impact level with examples. b) Write short note on Cybercrime. c) Write Advantages of cyber law. [6] ** ** ** ** ** ** ** ** **					