Total No	No. of Questions : 8] SEAT No. :	
PC17	740 [Total No. of	Pages: 2
	T.E. (AJ&DS)	
	CYBER SECURITY	
	(2019 Pattern) (Semester - II) (317530)	
<i>Time</i> : 2 ¹	2½ Hours] [Max. M	<i>Marks</i> : 70
Instructi	ctions to the cardidates.	
1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.	
2)		
3)	Draw neat figures wherever necessary.	
<i>4</i>)	Figures to the right indicate full marks.	
5)	Use of Calculator is allowed.	
6)	Assume suitable data if necessary.	
	9. · · · · · · · · · · · · · · · · · · ·	
Q1) a)		
	e=17 and M=8.	[8]
b)	b) What is authentication? Explain various methods for authentica	tion. [9]
	OR	
	6,000	
Q2) a)	a) User A and B use the Diffie-Hellman Key exchange techniq	uec with
Q^{2}) a)	common prime q=71 and primitive root α =7.	
	common prime q=71 una primitive root w=7.	
	i) If your A has private large V = 5 what is A's public large V ?	* Z
	i) If user A has private key $X_A = 5$ what is A's public key Y_A ?	3
		×)
	ii) If user B has private key $X_b=12$ what is B's public key Y_B	?
	× 9.	
b)	b) Distinguish between Kerberos and X.509 authentication services	e. [9]
Q3) a)	a) Describe IPsec protocol with its components & security service	ces. [9]
b)	b) What is PGP? Explain operation of PGP.	[9]
٥)	operation of a second of the s	r, 1
	OR	

P.T.O.

Q4) a)	Explain Secure Socket Layer Protocol?	[9]
b)	Explain VPN architecture with its component.	[9]
Q 5) a)	List and explain any two password management practices.	[9]
b)	What is IDS? Explain types of Intrusion detection systems (IDS).	[8]
	OR	
Q6) a)	Explain methods for intrusion detection system (IDS).	[8]
b)	Explain countermeasures that can be implemented in Cyber securit	y. [9]
	6.7	
Q7) a)	Define cybercrime? Explain it with its type?	[8]
b)	Write short note on following:	[10]
7	i) Cyber stalking.	
	ii) Hacking.	
	OR	
Q8) a)	Define Hacking? Explain different types of hacking.	[8]
b)	Write short note on following:	[10]
	i) Information Protection Law.	
	i) Information Protection Law. ii) PII.	
	Write short note on following: i) Information Protection Law. ii) PII. ①①①①①	
	6.	
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