B. Tech. Sem - VIII (Inf. Tech.) (2014 COURSE) (CBCS) : SUMMER - 2019

SUBJECT: 3) ELECTIVE – III NETWORK SECURITY & CRYPTOGRAPHY

Day: Date:		urday 06/2019 S-2019-2914	Time: 02.30 PM TO 05.30 PM Max Marks. : 60	
N.B.:	1) 2) 3) 4) 5)	 Figures to the right indicate FULL marks. Assume suitable data, if necessary. Use of non programmable calculator is ALLOWED. 		
Q.1		Summarize need of network security. Discuss the mechanisms and attacks in detail.	relation between security	(10)
		OR		
Q.1		Write about Fermat and Euler's theorem in detail.		(10)
Q.2		Describe the CNSS security Model, with its three dimensions. OR		(10)
Q.2		With suitable examples, distinguish between transposubstitution cipher system.	osition cipher system and	(10)
Q.3		Draw the structure of AES. Explain how Encryption AES.	and decryption is done in	(10)
		OR		
Q.3		Discuss the RSA algorithm in detail, with its co security.	mputational aspects and	(10)
Q.4		Briefly explain the different message authenticat diagram.	ion functions with neat	(10)
		OR		
Q.4		Explain Digital signature with ElGamal public example.	key cryptosystem with	(10)
Q.5		Write in detail about definition, characteristics, t	ypes and limitations of	(10)
		OR		
Q.5		How will you enhance the ability of a system to definalicious program?	end against intruders and	(10)
Q.6		Illustrate the confidentiality and authentication servic OR	e provided by PGP.	(10)
Q.6		Elaborate the architecture of IP Security with neat dia	grams.	(10)
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