## B.C.A. (Part-III) Semester-V Examination NETWORK SECURITY

## Paper-5 ST 2

Tin	ne : T	hree Hours] [Maximum Ma	[Maximum Marks : 60	
N.I	3. :-	(1) ALL questions are compulsory.	,	
		(2) All questions carry equal marks.		
1.	(a)	Explain the model for Network Security.	6	
	(b)		6	
	` ′	OR		
2.	(a)	Explain Security Mechanism.	6	
	(b)	Explain Symmetric Cipher Model.	6	
3.	(a)	Explain the DES encryption algorithm.	6	
	(b)	What are the stream cipher and block cipher?	6	
		OR		
4.	Exp	lain Advanced Encryption Standard in detail.	12	
5.	(a)	State and prove the Euler's theorem.	6	
	(b)	Describe the divisibility and division algorithm.	6	
		OR		
6.	(a)	Explain modular arithmetic operations with example.	6	
	(b)	Explain Fermat's theorem.	6	
7.	(a)	Explain one-way Hash function with example.	6	
	(b)	Distinguish between conventional and public key encryption.	6	
	-	OR		
8.	Exp	lain the RSA public key encryption algorithm with example.	12	
9.	(a)	Discuss Transport Layer Security.	6	
	(b)	What is PGP? State and explain any three principle services provided by PGP.	6	
		OR		
10.	(a)	Describe the services of firewall.	6	
	(b)	What is Intruder? Explain.	6	
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