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B.C.A. Part—III (Semester—V) Examination NETWORK SECURITY Paper—5ST2

Time	e : T	Three Hours] [Maximum Marks:	60
Note	e :—	(1) ALL questions are compulsory.	
		(2) All questions carry equal marks.	
1.	(a)	What are the essential ingredients of Symmetric Cipher? Explain with diagram.	6
	(b)	Explain Model for Network Security in brief.	6
		OR	
2.	(a)	Explain the module for Network Security.	6
	(b)	Explain the Symmetric Cipher Model.	6
3.	(a)	Explain Cipher Block Chaining.	6
	(b)	Describe the concept of Block Cipher and Stream Cipher.	6
		OR	
4.	(a)	Explain the parameters and design choices that determine the actual algorithm of Feis	stal
		Cipher.	6
	(b)		6
5.	(a)	Discuss Modular Arithmetic Operation.	6
	(b)	State and prove Euler's Theorem.	6
		OR	7755
6.	(a)	Describe the divisibility and division algorithm.	6
	(b)	Explain the following terms:—	
		(1) Group	
		(2) Ring	
		(3) Field.	6
7.	(a)	Explain RSA Public Key Encryption Algorithm.	6
	(b)		6
27		OR	
8.	(a)	Explain Public Key Cryptography with suitable diagram.	6
	(b)	Write importance of Digital Signature.	6
9.	(a)	Give examples of application of IP Security.	3
	(b)	What are Firewalls ? Explain.	3
	(c)	What are MIME and S/MIME ? Explain.	6
		OR	٤
10.	(a)	Explain Transport Layer Security.	6
	(b)	Explain pretty good Privacy in e-mail security.	6