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B.Tech. – VIEP – COMPUTER SCIENCE AND

ENGINEERING (BTCSVI)

Term-End Examination

December, 2017

00941

BICSE-016 : CRYPTOGRAPHY AND NETWORK

SECURITY

Time : 3 hours

Maximum Marks: 70

Note: Answer any five questions. All questions carry equal marks.

- 1. (a) What is an Attack ? Explain and differentiate between active and passive attacks with a suitable example.
 - (b) What do you mean by Cryptography ? Explain public key and private key cryptography.
- 2. (a) What is PGP ? Mention the services provided by the Pretty Good Privacy (PGP). 7
 - (b) What is a Trusted System ? Explain the basic concept of data access control in trusted systems.

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3.	(a)	Explain the significance and design details of S/MIME.	7
	(b)	Describe the design details of a secure electronic transaction.	7
4.	(a)	What is Cipher ? Explain and differentiate between substitution cipher and transposition cipher.	7
	(b)	Explain the procedure of RSA algorithms in detail with example.	7
5.	(a)	How is security provided at transport layer, network layer and application layer ? Discuss.	7
	(b)	What is Single Sign-On (SSO) ? Explain in detail.	7
6.	(a)	What do you mean by Network Security ? Explain with the help of example and suitable diagram.	7
	(b)	What is HASH function ? Explain the security of hash function and MACs.	7
7.	Write short notes on the following :		14
	(a)	IP Header	
	(b)	Intruder Detection	
	(c)	Digital Signature Standard	
	(d)	MD5 Algorithm	
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