No. of Printed Pages: 2

BICSE-016

P.T.O.

B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

00903

BICSE-016

December, 2016

BICSE-016: CRYPTOGRAPHY AND NETWORK SECURITY

Time: 3 hours Maximum Marks: 70 **Note:** Attempt any five questions. Each question carries equal marks. Explain how the man-in-the-middle attack can be 1. done on Diffie-Hellman key exchange algorithm. What features are added in the Oakley protocol to counter this attack? 14 Explain a single round of DES algorithm with 2. the help of a neat diagram. 14 Explain RSA algorithm with an example and test 3. for primality. Also list the possible attacks on it. 14 4. What are the two different uses of public (a) cryptography related key to distribution? 7 **(b)** Discuss Diffie-Hellman key exchange algorithm.

1

5.	What is meant by message authentication? Explain about the functions of authentication in		
	deta		14
6.	(a)) What is meant by Block Cipher?	
	(b)	What are the key algorithms used in S/MIME?	7
7.	Give any two parameters and design choices that		
	dete	rmine the actual algorithm of a Feistel	
	Cipl	ner.	14