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Total No. of Questions: 8] [Total No. of Printed Pages: 2 Roll No MCIT-201 M.E./M.Tech., II Semester Examination, December 2016 **Information Security System** Time: Three Hours Maximum Marks: 70 Note: i) Attempt any five questions. ii) All questions carry equal marks. 1. a) Explain one time pad method of Cryptography with a suitable example. What are two fundamental limitations? List and briefly define types of Cryptanalytic attacks based on what is known to the attacker? What is DES? Define Avalanche effect in DES. What are major strength of DES? Describe stream Ciphers based on linear feedback shift registers. What is Euclid's algorithm? With a suitable example explain the process of finding out GCD. What type of attacks are addressed by message authentication? Name two approaches to provide message authentication.

What do you mean by Intractable problems? Explain RSA problem. http://www.rgpvonline.com Explain some known algorithms for solving the Intractable problems. Describe Diffie-Hellman key exchange method in detail. Write a short note on Digital Signatures. Draw and explain KERBEROS. Differentiate version 4 and 5. Explain Elliptic Curve method of Cryptography. Write short notes on any two: IP Security SSL Birthday Attack

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its strengths.

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Draw and explain MD5 Secure Hash Algorithm. What are

What is Chinese Remainder theorem? Explain.