Total No. of Questions: 8]

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Roll No

MCSE-302(A) M.E./M.Tech., III Semester

Examination, December 2017

Network Security

(Elective-II)

Time: Three Hours

Maximum Marks: 70

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

- What do you mean by steganography? Explain. Write drawbacks of encryption when compared to encryption.
 - Explain simplified DES. What is the purpose of S-boxes in DES? Explain the Avalanche effect.
- What do you mean by cryptanalysis? Differentiate linear and differential cryptanalysis.
 - What are two most difficult problems of symmetric encryption? Write the characteristics of public key crypto systems.
- What are the differences between conventional encryption and public key encryption?
 - Explain the RSA algorithm with an example.
- Briefly discuss Diffie-Hellman key exchange algorithm.
 - What do you understand by message authentication code? Explain.

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- What is Hash function? Give the basic uses of Hash function.
 - What basic arithmetical and logical functions are used in SHA-1 and MD5.
- What is digital signature? Explain arbitrated and direct approach for digital signature.
 - b) What was Kerberos designed for? Explain the architecture of Kerberos.
- What is IP Security? What are the various merits of IP security?
 - List and briefly define three classes of intruders. What are two common techniques used to protect a password file?
- Write short notes on (any Two):
 - Firewall design principles
 - IP spoofing
 - RANSOMWARE
 - Brute force attacks

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