

7E7032	Roll No. _____	[Total No. of Pages : 2]
	7E7032	
	B.Tech. VII - Sem. (Main/Back) Examination, Nov. - 2019	
	Computer Science And Engineering 7CS2A Information System Security Common For CS, IT	

Time : 3 Hours

Maximum Marks : 80
Min. Passing Marks : 26

Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

UNIT - I

1. Explain differential and linear cryptanalysis of DES. (16)

OR

1. a) What is Shannon's theory of confusion and diffusion? Explain fiestel structure of Block ciphers. (10)
b) Write short note on triple DES. (6)

UNIT - II

2. a) Write and explain the design criterion of S - Box in detail. (10)
b) Explain Construction of Balanced function for S - Box. (6)

OR

2. a) Explain RC.6 algorithm for information system security. (8)
b) Write short note on propagation and non linearity of S - Box. (8)

UNIT - III

3. a) Discuss security analysis of RSA algorithm along with its application. (8)
b) Explain Diffie Hellman key exchange algorithm in detail. (8)

OR

[Contd....]

3. a) Explain Public key cryptosystems along with its principles. (10)
b) Write short note on X.509. (6)

UNIT - IV

4. Explain following in detail.

- a) SHA (8)
b) MD5 (8)

OR

4. a) Explain symmetric and Asymmetric Authentication. (10)
b) Explain authentication protocols for digital signatures. (6)

UNIT - V

5. a) Explain the architecture of IP security in detail. (10)
b) Write short note on Encrypted key exchange. (6)

OR

5. Explain following in detail.

- a) Encapsulation security payload in transport and Tunnel mode with multiple Security Association. (10)
b) Lamport's Hash. (6)



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