

No. of Printed Pages : 03

Roll No.

H-223

B. Tech. EXAMINATION, Dec. 2017

(Eighth Semester)

(Old Scheme) (Re-appear Only)

(IT)

IT-406

CRYPTOGRAPHY AND SECURITY
SYSTEMS

Time : 3 Hours]

[Maximum Marks : 100

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(3-27/11)M-H-223

P.T.O.

Unit I

1. What is Cryptography ? Explain various goals for setting realistic security objectives. **20**
2. Explain the following : **20**
 - (a) IP routed configuration
 - (b) Key recovery
 - (c) Escrowed encryption
 - (d) Point to point encryption.

Unit II

3. (a) What are the basic issues with IPSEC proxy cryptography ? **20**
(b) Explain Cryptographic checksums.
4. Explain the following : **20**
 - (a) IP security protocol
 - (b) IPSEC key management.

Unit III

5. (a) Define and explain Secret key exchange with RSA Cryptography. **20**
(b) Explain Internet and IPSEC firewall.

6. (a) What is Transaction World Wide Web ?
(b) Explain Web browser with SSL. **20**

Unit IV

7. (a) What is the basic issue with e-mail security ? **20**
(b) Explain distributing public keys.
8. (a) What are centralized and hierarchical certification authority ? **20**
(b) Explain Public Key Certificates.