

Reg. No. 

--	--	--	--	--	--	--	--	--	--

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

**M TECH I Year II Semester (R16) Regular Examinations May/June 2017**

**CRYPTOGRAPHY & NETWORK SECURITY**

(Embedded Systems)

(For Students admitted in 2016 only)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 X 12 = 60 Marks)

**UNIT-I**

- 1 a. Explain classical encryption techniques play fair and row transposition cipher? 6M  
b. Explain the RSA algorithm with an example? 6M

**OR**

- 2 a. Explain public key cryptography principles in detail? 6M  
b. Write about symmetric encryption method? 6M

**UNIT-II**

- 3 a. Explain X.509 authentication certificate format? 6M  
b. Draw and explain ESP format? 6M

**OR**

- 4 a. Explain PGP operational descriptions any two? 6M  
b. Explain key management and distribution in detail? 6M

**UNIT-III**

- 5 a. Explain distributed intrusion detection system? 6M  
b. Explain various types of firewalls? 6M

**OR**

- 6 a. Write about wireless LAN security factors & issues? 6M  
b. Explain password management procedure? 6M

**UNIT-IV**

- 7 a. Explain types of attacks? 6M  
b. In public key system using RSA, you intercept the cipher text  $C=10$  sent to user whose public key is  $e=5, n=35$  what is the plain text  $M$ ? 6M

**OR**

- 8 a. Explain various malicious vulnerabilities? 6M  
b. Explain triple DES procedure with diagram? 6M

**UNIT-V**

- 9** a. Explain network security topologies? 6M  
b. Write about emerging security technologies? 6M

**OR**

- 10** a. Explain the process of detection of Rogue devices? 6M  
b. Explain difficulties of secure networking? 6M

**\*\*\* END \*\*\***