

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- V EXAMINATION – WINTER 2016

Subject Code: 2650002

Date: 19/11/ 2016

Subject Name: Network Security

Time: 10.30 am to 01.00 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a) Attempt the following**
1. List Active & Passive Attacks. **03**
 2. State the difference between Symmetric & Asymmetric Encryption. **04**
- (b)**
1. List the key feature of SET. **04**
 2. Define: 1. Firewall 2. Wireless LAN 3. HTTPS **03**
- Q.2 (a)**
1. Explain Security Mechanism. **03**
 2. State the difference between block & Stream cipher. **04**
- (b)** Discuss RC4 algorithm. **07**
- OR**
- (b)**
- Discuss X.509 Certificate. **04**
 - Discuss Cipher block Modes of operations. **03**
- Q.3 (a)** Compare DES, 3DES and AES. **07**
- (b)**
1. Explain Key Distribution. **04**
 2. Discuss PGP Services. **03**
- OR**
- Q.3 (a)** Briefly explain RSA Public key algorithm. **07**
- (b)**
1. Explain Web security Overview. **07**
 2. Discuss Stream Cipher.
- Q.4 (a)** Briefly explain the concept of SET. **07**
- (b)** Draw ESP format for IPSec and describe the need of various fields. **07**
- OR**
- Q.4 (a)** What is IPSec? What are the policies of IPSec? **07**
- (b)** Explain: 1. TLS 2. Secure Shell **07**
- Q.5 (a)** Explain IEEE 802.11 Wireless LAN **07**
- (b)** Explain PGP and its Services. **07**
- OR**
- Q.5 (a)** What is Intrusion? Discuss intrusion detection techniques. **07**
- (b)** Explain Firewall with its types. **07**
