Seat No.: _____          Enrolment No._____

# GUJARAT TECHNOLOGICAL UNIVERSITY
## MCA - SEMESTER– V EXAMINATION – WINTER - 2018

**Subject Code: 2650002**                    **Date:17/11/2018**
**Subject Name: Network Security**
**Time:10.30 am to 01.00pm**                 **Total Marks: 70**
**Instructions:**
  1. **Attempt all questions.**
  2. **Make suitable assumptions wherever necessary.**
  3. **Figures to the right indicate full marks.**

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|---|---|---|---|
| **Q.1** | **(a)** | **Attempt the following.** | |
| | | 1. List Active & Passive attack | **04** |
| | | 2. Explain security mechanism. | **03** |
| | **(b)** | Explain key features of SET. | **07** |
| **Q.2** | **(a)** | Discuss RC4 algorithm in detail. | **07** |
| | **(b)** | Define: 1. Firewall    2. TLS    3. Secure shell | **07** |

**OR**

| | | | |
|---|---|---|---|
| | **(b)** | State the difference between Block & Stream Cipher | **07** |
| **Q.3** | **(a)** | Discuss X.509 certificate. | **07** |
| | **(b)** | Compare DES, 3DEC & AES. | **07** |

**OR**

| | | | |
|---|---|---|---|
| **Q.3** | **(a)** | Explain RSA algorithm in detail. | **07** |
| | **(b)** | Discuss the benefits of IPSecurity. | **07** |
| **Q.4** | **(a)** | Define Deffie-Hellman key exchange algorithm with example. | **07** |
| | **(b)** | Explain ESP format. | **07** |

**OR**

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|---|---|---|---|
| **Q.4** | **(a)** | Explain PGP and its services. | **07** |
| | **(b)** | Explain Web security overview. | **07** |
| **Q.5** | **(a)** | Explain IEEE 802.11 Wireless LAN. | **07** |
| | **(b)** | Discuss Kerberos and its versions. | **07** |

**OR**

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|---|---|---|---|
| **Q.5** | **(a)** | Explain Firewall and its types. | **07** |
| | **(b)** | Discuss Intrusion and its detection techniques. | **07** |

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