

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

# **GUJARAT TECHNOLOGICAL UNIVERSITY**

**M.E. SEMESTER III–EXAMINATION – WINTER 2015**

**Subject code: 2735602**

**Date: 04/12/2015**

**Subject Name: Network Defense**

**Time: 2:30 PM to 5:00 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) Explain how an organization can implement security as a process and not simply as a product. Also explain few security products available today. **07**
- (b) Define the following terms and explain each in brief: **07**
- i. Information Security
  - ii. Communication Security
  - iii. Emission Security
  - iv. Network Security
  - v. Firewall
  - vi. Security Attacks
  - vii. Snooping
- Q.2** (a) What is the intention of attacker during Denial of Service attack? Explain various types of DoS attacks and how are they accomplished? **07**
- (b) What do you mean by repudiation attack? Explain in detail how they are accomplished. Suggest some countermeasure for such attack. **07**
- OR**
- (b) Explain the role of biometric system and smart card as security technologies. **07**
- Q.3** (a) What do you mean by security policy? How it is important for an organization? What are common sections of each policy? **07**
- (b) What should be included into requirement definition of VPN? Also Explain various components of VPN in detail. **07**
- OR**
- Q.3** (a) What can IDS monitor in a system and how it can be configured in a different manner to respond after some event? **07**
- (b) How do we enforce security policies in an organization? **07**
- Q.4** (a) How can you implement VPN systems differently? Explain each of them with their advantages and disadvantages. **07**
- (b) How do you develop a security policy? Who are the contributors for development to security policy? **07**
- OR**
- Q.4** (a) Explain how IDS can be used for prevention of intrusion along with its disadvantages? **07**
- (b) How can you deploy Site VPN? What are the issues with Site VPN? **07**
- Q.5** (a) Explain different events in which IDS can report. **07**
- (b) Explain VPN protocols. **07**
- OR**
- Q.5** (a) Explain different types of security policy related to use of a computer in an organization. **07**
- (b) How can you deploy IDS? Give the plan for it. Also write future of IDS. **07**

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