Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER-5 EXAMINATION –WINTER- 2019

Subject Code:3350704   **Date: 18-11-2019**
Subject Name: Computer And 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.
      4. Use of programmable & Communication aids are strictly prohibited.
      5. Use of only simple calculator is permitted in Mathematics.
      6. English version is authentic.

Q.1		Answer any seven out of ten. દશમાંથી કોઈપણ સાતના જવાબ આપો.	**14**

1. Define: Intruders and Insiders
૧. વ્યાખ્યા આપો: Intruders and Insiders

2. What is replay attack?
૨. replay attack શું છે?

3. What is piggybacking?
૩. Piggybacking શું છે?

4. Define: Encryption and Decryption
૪. વ્યાખ્યા આપો: Encryption and Decryption

5. List out Symmetric Encryption Algorithms.
૫. Symmetric Encryption Algorithms ના નામ લખો.

6. What is Digital Signature?
૬. Digital Signature શું છે?

7. What is Key Escrow?
૭. Key Escrow શું છે?

8. What is transposition cipher?
૮. transposition cipher શું છે?

9. List out applications of IPSec.
૯. IPSec ની applications લખો.

10. List out different types of intruders.
૧૦. જુદાજુદા પ્રકારના intruders લખો.

Q.2	(a)	Explain sniffing and spoofing in detail.	**03**
પ્રશ્ન. ૨	(અ)	Sniffing and spoofing વિસ્તારથી સમજાવો.	૦૩

<div align="center">OR</div>

	(a)	Explain Active attacks in detail.	**03**
	(અ)	Active attacks વિસ્તારથી સમજાવો.	૦૩
	(b)	How can we increase security awareness in people?	**03**
	(બ)	લોકોમાં security awareness કેવી રીતે વધારી શકાય?	૦૩

<div align="center">OR</div>

	(b)	Write short note on Access Control in physical security.	**03**

	(બ)	ટૂંકનોંધ લખો: Access Control in physical security	૦૩
	(c)	Explain Security basics. (CIA property of security)	04
	(ક)	Security basics સમજાવો. (CIA property of security)	૦૪

<div align="center">OR</div>

	(c)	Explain steps in attack.	04
	(ક)	steps in attack સમજાવો.	૦૪
	(d)	Explain Shoulder surfing and Dumpster diving.	04
	(ડ)	Shoulder surfing and Dumpster diving સમજાવો.	૦૪

<div align="center">OR</div>

	(d)	What is Biometric Security? Explain any two methods of Biometric Security in detail.	04
	(ડ)	Biometric Security શું છે? Biometric Security ની કોઈપણ બે રીત સમજાવો.	૦૪

Q.3	(a)	Write short note on VLAN.	**03**
પ્રશ્ન. 3	(અ)	ટૂંકનોંધ લખો : VLAN	૦૩

<div align="center">OR</div>

	(a)	Write short note on tunneling.	**03**
	(અ)	ટૂંકનોંધ લખો : tunneling	૦૩
	(b)	Explain Key features of SET.	**03**
	(બ)	SET ના Key features સમજાવો.	૦૩

<div align="center">OR</div>

	(b)	Explain Statistical Anomaly Detection and Rule based Detection.	**03**
	(બ)	Statistical Anomaly Detection and Rule based Detection સમજાવો.	૦૩
	(c)	Write short note on Kerberos.	**04**
	(ક)	ટૂંકનોંધ લખો : Kerberos	૦૪

<div align="center">OR</div>

	(c)	Explain DMZ in detail.	**04**
	(ક)	DMZ વિસ્તારથી સમજાવો.	૦૪
	(d)	Write short note on SSL.	**04**
	(ડ)	ટૂંકનોંધ લખો : SSL	૦૪

<div align="center">OR</div>

	(d)	Explain Network based IDS.	**04**
	(ડ)	Network based IDS સમજાવો.	૦૪

Q.4	(a)	Explain symmetric encryption.	**03**
પ્રશ્ન. ૪	(અ)	Symmetric encryption સમજાવો.	૦૩

<div align="center">OR</div>

	(a)	Explain shift cipher with example.	**03**
	(અ)	Shift cipher ઉદાહરણ આપી સમજાવો.	૦૩
	(b)	What is Trust model? List out types of Trust model. Explain any one in detail.	**04**
	(બ)	Trust model શું છે? Trust model ના નામ લખો. કોઈપણ એક વિસ્તારથી સમજાવો.	૦૪

<div align="center">OR</div>

	(b)	What is Digital Certificate? Write down steps to obtain Digital Certificate.	**04**
	(બ)	Digital Certificate શું છે? Digital Certificate મેળવવાના પગથિયા લખો.	૦૪
	(c)	Explain Playfair Cipher with example.	**07**
	(ક)	Playfair Cipher ઉદાહરણ આપી સમજાવો.	૦૭

Q.5	(a)	Explain Denial of service attack in detail.	04
પ્રશ્ન. ૫	(અ)	Denial of service attack વિસ્તારથી સમજાવો.	૦૪
	(b)	Explain Packet filter firewall in detail.	04
	(બ)	Packet filter firewall વિસ્તારથી સમજાવો.	૦૪
	(c)	Explain Host based IDS.	03
	(ક)	Host based IDS સમજાવો.	૦૩
	(d)	Explain password selection strategies.	03
	(ડ)	password selection strategies સમજાવો.	૦૩

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