This d	ocument is a	part of Main Course File	Document No.: CFM – 8	
ATEL POLIFICA		SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED N. G. PATEL POLYTECHNIC		
ISROLI-AFWA		Computer Engineering Department		
		FORMAT FOR A		
	se Name (With Code):Basic Information Security (4360702)			
•		mester /3 nd year		
-	nt Number: 1			
	nt CO Number			
Sr. No.		-	ted to Course Outcomes	
Part – A		Questions carrying 2 Marks		
1	What is information Security?			
2	Explain need for security			
3	Explain masquerade attack			
Part – B	Questions carrying 3 Marks			
1	Explain types of security attacks			
2	Difference between Active attacks and Passive attack			
Part – C	Questions carrying 4 Marks			
1	Explain Denial Of Services with diagram			
2	Explain confidentiality, integrity and availability			
3	Explain secu	•		
4		rity mechanisms		
Part – D	Questions carrying 7 Marks			
1	Explain CIA TRIAD of information Security			
2	Write down brief notes on security services			
3	Write down brief notes on security mechanisms			
Duon 1	D (N 6	\mathbf{F}_{α} and \mathbf{f}_{α} (i.e., \mathbf{f}_{α})*41-		
-	by: (name of	Faculty (ies)) with	Signature of Head of Department	
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		FORMAT FOR AS		
		e): Basic Information Security	r (4360702)	
-		mester /3nd year		
	nt Number: 2			
-	nt CO Number			
Sr. No.	_		ed to Course Outcomes	
Part – A		arrying 2 Marks		
1			3> key 4> Encryption 5> Decryption	
2		ography and cryptanalysis		
3		Time Pad is unbreakable		
4	What is steganography?			
Part – B	Questions carrying 3 Marks			
1	Write a short note on cryptanalysis			
2	Write a short note on steganography			
3	Differentiate polyalphabetic and mono alphabetic cipher			
Part – C	Questions carrying 4 Marks			
1	Write short note on OTP			
2		: Substitution Cipher and Trai		
3			T", plain text IT IS LIKE HEAVEN".	
4		•	her text using vigenere method Key is INDIA	
		Find the cipher text for the following using Hill cipher for given plaintext is : GTU and key is		
5	324			
0	816			
	695			
Part – D	Questions carrying 7 Marks			
1	Write the de fair method	the definition of cipher text and write key matrix for the plaintext "BAGYA" using play		
2		n Rail fence Method of cryptography with Example		
3	•	Explain play fair cipher with example		
4	Explain Caesar cipher with example			
5	Justify need of cipher text in brief convert following plain text in to the cipher text using Caesar cipher "GUJARAT TECHNOLOGICAL UNIVERSITY"			

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VSROLI-AFWA		Computer Engineering Department		
FORMAT FOR ASSIGNMENTS				
	Course Name (With Code): Basic Information Security (4360702)			
	Semester / Year: 6th Semester /3 nd year			
0	nt Number: 3			
	nt CO Numbe			
Sr. No.		-	ed to Course Outcomes	
Part – A		arrying 2 Marks		
1	-	tal signature?		
2	Define PKI?			
3	Give full name of RA and CA			
Part – B	Questions carrying 3 Marks			
1	Explain digital signature in detail with suitable diagram			
2	Explain PKI with suitable diagram			
3	List and explain step to verifying and integrity of a Digital certificate			
4	Explain CDS in brief.			
Part – C	Questions carrying 4 Marks			
1	Explain how to achieve confidentiality using Public Key Cryptosystem with suitable diagram			
2	Explain how to achieve Secrecy(Authentication) using Public Key Cryptosystem with suitable diagram			
3	List and step to obtain digital certificate			
4	-	lain step to verifying and integr	rity of a Digital certificate	
Part – D	Questions carrying 7 Marks			
1	Explain how to achieve Secrecy(Authentication) and confidentiality using Public Key			
1	Cryptosystem with suitable diagram			
2	Explain RSA algorithm in detail with example			
3	List and step to obtain digital certificate			
4	List and expl	lain step to verifying and integr	rity of a Digital certificate	
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	,	asic Information Security (43	360702)
Semester / Year		r /3 nd year	
Assignment Nur			
Assignment CO	Number: 436		
Sr. No.	0		ted to Course Outcomes
Part – A 1	•	rrying 2 Marks	
2			
3	List types of fire wall Difference between HIDS and NIDS		
4	Difference between HIDS and NIDS Define IDS		
Part – B	Questions carrying 3 Marks		
1	Explain DMZ		
2	Explain VLAN		
3	Explain VEXIX Explain Tunneling		
4	Explain runnening Explain security implication in detail		
5	Explain security impleation in detail Explain packet filtering Fire wall in detail		
6	Explain packet intering the wan in detail Explain application gate way firewall with example		
7	Explain HIDS		
8	Explain NIDS	5	
Part – C	Questions carrying 4 Marks		
1	Write a short note on NIDS		
2	Define fire wall .and explain its limitation		
3	Explain fire wall with their types and components		
4	Explain IDS with types		
5	Write a short note on IDS		
Part – D	Questions carrying 7 Marks		
1	Explain IDS with types		
2	Explain fire wall with their types and components		
3	Explain DMZ and VLAN with diagram		

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5	Compute	Computer Engineering Department		
	FORMAT FOR A			
	me (With Code): Basic Information Secur	ity (4360702)		
	'Year: 6th Semester /3 nd year			
	nt Number: 5			
	nt CO Number: 4360702.E			
Sr. No.		ed to Course Outcomes		
Part – A	Questions carrying 2 Marks			
1	Define virus			
2	Define worm			
3	Define intruders			
4	Define : intruders and insider			
5	Explain Cyber space and cyber crime			
Part – B	Questions carrying 3 Marks			
1	Difference between virus and worms			
2	List types of intruders and explain it			
3	Define hacking in detail			
4	Explain Man in Middle attack			
Part – C	Questions carrying 4 Marks			
1	Explain SQL injection			
2	Define vulnerabilities and list out types of vulnerabilities			
3	List out traditional problems associated with computer crime			
4	Explain cyber space			
5	Explain Man in Middle attack			
Part – D	Questions carrying 7 Marks			
1	Various types of cyber-attack in detail			
2	Explain SQL injection in detail			

3	Explain Man in Middle attack	
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