	Paper / Subject Code: 37412 / Cryptography and System Security	
Ē	Sem VI (R-2019) (Scheme "Ald DS" Mo	42023
023	Duration: 3hrs	
N.B.	(1) Question No 1 is Compulsory. (2) Attempt any three questions out of the remaining five. (3) All questions carry equal marks. (4) Assume suitable data, if required and state it clearly.	
	Attempt any FOUR	
a	Describe services and mechanisms.	[20]
b	ECB and CBC block cipher.	
С	Why digital signature and the	
d	Why digital signature and digital certificates are required? What is keyed and keyloss to	
e	RCYICSS Iransposition	
	Explain clickjacking and session hijacking.	
a	Explain DES algorithm with reference to following points: 1. Block size and key size 2. Need of expansion permutation 3. Role of S-box 4. Possible attacks on DES	[10]
	Use the playfair cipher with the keyword "example" to encipher "The algorithm name is playfair cipher"	
		[10]
а	What are properties of hash function? Compare MD-5 and SHA hash algorithm.	
b	Explain Diffie hellman key exchange algorithm.	[10]
	exchange argorithm.	[10]
a b	What do you understand by digital signatures and digital certificates? Explain digital	[10]
3	Explain memory and address protection in detail. Write a note on file protection.	[10]
	그는 그렇게 하는 것이 되는 것이 없는 그 사람들이 모든 수 있는 그는 것이 없는 것이 없다.	[10]
a b	Enlist various functions of protocols of SSL. Explain the phases of handshake protocol. Briefly explain database sequents: When the	[10]
Ŕ	Briefly explain database security. What do you understand by multilevel database security.	[10]
	Write short notes on any four:	[20]
a	Web browser attacks	[20]
b	X.509	
c	Cross site request forgery	
d	DNS attack	
e	Email attacks.	
100	*	
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