Reg. No AR 21

Gandhi Institute of Engineering and Technology University, Odisha, Gunupur (GIET University)

B. Tech. (Seventh Semester - Regular) Examinations, November - 2024

21BCSPE47011 – Cryptography & Network Security

(CSE)

Time: 3 hrs

Maximum: 70 Marks

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	Answer ALL questions			
(The figures in the right hand margin indicate marks) PART – A (2 x 5 = 10 M				arks)
Q.1. Answer <i>ALL</i> questions		(2 4 0 -	CO #	Blooms
	List and briefly define Attacks & Its categories of passive and active security attac		CO1	Level K1
	Differentiate Double DES and Triple DES structure.		CO1	KI K2
	Define Digital Signature with Application.		CO2	K2 K1
	Explain briefly about the protocols used in Web security.		CO3	K1 K1
	Explain the Role of MIME Protocol in Email security.		CO4	K1 K1
		(15 4		
		(15 x 4 = Marks	= 60 MI CO #	arks) Blooms
Ansv	ver All the questions	Marks	0.0#	Level
2. a.	Briefly Explain about list of Security Services and Mechanisms.	8	CO1	K1
b.		7	CO1	КЗ
	MONARCHY, Plain Text- "LIFE IS BEAUTIFUL".			
	(OR)			
c.		8	CO1	КЗ
d.	6 6	nt 7	CO1	КЗ
	equations using CRT?			
3.a.	$X = 1 \pmod{5}$, $X = 1 \pmod{7}$, $X = 3 \pmod{11}$ Draw the general structure of DES and explain the encryption/ decryptio	n 8	CO2	КЗ
J.a.	process.	11 0	02	KJ
b.		7	CO2	К2
	(OR)			
c.	Explain the Feature of Public Key Cryptography with differentiation betwee	n 8	CO2	K2
	Symmetric & Asymmetric cryptography.			
d.	Define Hash function Algorithms. Explain in Details about SHA & MD5.	7	CO2	K1
4.a.	Explain briefly about the Kerberos – X.509 Authentication services	8	CO3	K1
b.		n 7	CO3	К2
	System?			
	(OR)			
c.	Draw the architecture of Firewall and Its Types & Application.	8	CO3	КЗ
d.	Explain briefly about working process of Secure Electronic Transaction (SET).	7	CO3	K1
5.a.	Explain PGP method in Electronic Mail system.	8	CO4	K1
b.	Explain use of Transport Layer protocol in Web security.	7	CO4	K1
	(OR)			
c.	Explain about IP security.	8	CO4	K1
d.	Mentioned the use of Protocols in Web security.	7	CO4	K1