BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: BRANCH	BTECH : CSE	(LND SEMESTER EXAMINATION)	SEMESTER : V SESSION : MO/20)22
TIME:	3:00 Hours	SUBJECT: IT330 CRYPTOGRAPHY AND NETWORK SECURITY	FULL MARKS: 50)
 INSTRUCTIONS: 1. The question paper contains 5 questions each of 10 marks and total 50 marks. 2. Attempt all questions. 3. The missing data, if any, may be assumed suitably. 4. Before attempting the question paper, be sure that you have got the correct question paper. 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. 				
Q.1(a) Q.1(b) Q.1(c)		ysis. ity architecture in details. of active and passive attacks with example.		[2] [3] [5]
Q.2(a) Q.2(b) Q.2(c)	Using Playfair cry "CRYPTOGRAPHY	eorem and it's application. yptographic algorithm, encrypt this message: "BTECH FIFTH SE ". wose of the S-boxes in DES? Show that DES decryption is, in fac	-	[2] [3] [5]
Q.3(a) Q.3(b) Q.3(c)	Explain Euclidear	cative inverse of each nonzero element in Z5. n algorithm. Using this algorithm, determine gcd(24140,16762) . an example, explain Diffie-Hellman Key Exchange.		[2] [3] [5]
Q.4(a) Q.4(b) Q.4(c)	Differentiate bet	s on SSL handshake protocol. ween SSL (Security Socket Layer) and SET (Secure Electronic Tra an example, explain RSA algorithm.	ansaction).	[2] [3] [5]
Q.5(a) Q.5(b) Q.5(c)	Differentiate between Virus and Worm.			[2] [3] [5]

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