DEPARTMENT OF COMPUTER SCIENCE AND ENGG. NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI. B.Tech(C.S.E) SIXTH SEMESTER

CYCLE TEST I

CSPC63 Principles of Cryptography

13/02/25	60 mins
ANSWER ALL THE QUESTIONS	1094
MAX:5 * 4 = 2	20 Marks
What are the different types of attacks? Explain each one of the	hem with
examples.	(4)
2. With a neat block diagram, explain the working of a round in DES.	(4)
Alice often needs to encipher a plain text made of both letters (a	to z) and
digits (0 to 9). Find out the key domain and the modulus if she uses a	1
(a)a multiplicative cipher	(2)
(b)an affine cipher	(2)
A transposition cipher is used to produce the following of	piphertext:
X2! HMESSSE2YTA2IIA	
The key used was: 5 2 6 3 4 1	
What is the plaintext?	(4)
5. Using EEA, find the multiplicative inverse of 23 in Z 100	(4)