MRSPTU ASSIGNMENT-1 COURSE CODE MCSE4-206

1st Assignment

SUBJECT: CRYPTOGRAPHY AND NETWORK SECURITY (MCSE4-206)

- Q 1: Describe, in the brief fallowing security services...
- (a) Confidentiality. [sep](b) Traffic confidentiality. (c) Access control. [sep](d) Data Integrity. [sep](e) Non-Repudiation.
- Q 2: What is a transpose cipher? Illustrate an example. What is steganography? Question-8 Solve with the hill cipher.

Plain text: "POH" [SEP]

Key: GYBNQKURP

- Q 3: Briefly define a Group, Ring and field. If every element of group G is its own inverse then group G s commutative. Prove
- Q 4: Describe the Fermat and Euler's Theorem? What is Euler Totient and describe also its limitations.