Name: ______ score:_____ / 10

There are 10 points possible on this quiz. No aids (book, notes, etc.) are permitted. You may use a calculator. Show all work and supporting calculations for full credit. Explain how you get your answers.

A tabula recta is available.

1. (2 points) **Encrypt** the message IT'S FRIDAY using an alphabetic Caesar cipher with shift 5 (A to F).

2. (2 points) **Decrypt** the message YFPJ F GWJFYM using an alphabetic Caesar cipher with shift 5 (A to F).

3. (2 points) **Encrypt** the message APRIL 11 2025 using the substitution table below.

original	A	В	С	D	Е	F	G	Н	I	J	K	L	M	N	О	P	Q	R
maps to	9	8	7	6	5	4	3	2	1	0	D	С	В	A	Н	G	F	Е
original	S	Т	U	V	W	X	Y	Z	0	1	1 2	3	4	5	6	7	8	9
maps to	L	K	J	I	P	0	N	M	T	S	+ - 0	R	V	U	Y	X	W	Ź

4. (2 points) **Encrypt** the message WHICH ONE ARE YOU using a tabular transposition cipher with rows of length 6.

5. (3 points) **Decrypt** the message SUHKO GEOUH EXROC XDRHX OCAX using a tabular transposition cipher with rows of length 6.

6. (1 point) Describe at least one aspect of a Caesar cipher that makes it vulnerable to being hacked (that is, deciphered by an unwanted observer).