Name:

Date: Friday, September 30, 2016

MATH 181 F1 Quiz #5

Directions: You have 15 minutes for this quiz. Please write clearly and justify your answers.

Question 1 (3 points): Use the Caesar cipher with (encrytion) key 3 to encrypt:

I L L I N I

Question 2 (3 points): Use the decimation cipher with (encrytion) key 3 to encrypt:

I L L I N I

Question 3 (4 points): Consider the following preference lists.

	Voter 1	Voter 2	Voter 3	Voter 4	Voter 5	Voter 6	Voter 7
1st	C	C	D	D	C	В	A
2nd	A	A	A	A	D	D	D
3rd	B	B	C	C	A	A	B
4th	D	D	B	В	B	C	C

Calculate the winner using:

- 1. plurality voting,
- 2. the Borda count,
- 3. and the Hare system.