MAT 331 Fall 2017, Practice Quiz 4
Quiz 4 on Thursday, October 25, 2018 (30 minutes)

Name	ID	Score

All answers are capital letters. Put one letter in each box.

For problems 1,3,4,6 the answer will be an English word.

(1) | | | | | | | | | | |

Decode from ASCII: 74,65,89,87,65,76,75,73,78,71

(2) | | | | | | | | | | |

Encode the following word with the Caesar code using a shift of 10: JACKHAMMER

(3) | | | | | | | | | | |

This was coded using the Caesar code with a shift of 3. Decode the word: PDGDJDVFDU

(4) | | | | | | | | | | |

This was coded using the Caesar code with an unknown shift (but the same for every letter). Decode the word: GITTULYFFU

(5) | | | | | | | | | | |

Convert letters to numbers 0-25, to get a sequence of plain-text $p_1, p_2, \ldots$ and define the cypher text by $c_1 = p_1$ to begin and $c_n = (p_n + p_{n-1}) \mod 26$ in general. Encode the following word: "INTERMEZZO"

(6) | | | | | | | | | | |

Using the same code as in (5), decode: "QKCHLMSLXV" (The answer will be a 10-letter English word.)