Name: _____

MAT331 Fall 2023, Practice Quiz 4   ID: _____

Every answer is a capital letter. You get 1 point per correct letter. No partial credit.
Notes, textbook, and use of MATLAB are allowed, but no assistance from others.

1. Decode from ASCII: 67,72,69,67,75,66,79,88,69,83

2. Encode the following word using the caesar cipher with a shift of 8: COMMUNIQUE

3. Decode the following word that has been encoded with a caesar cipher with a shift of 10: PBKLTYECVI

4. Decode the following word that has been encoded with a caesar cipher with an unknown shift:RQCREEPBUT

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: QUIZMASTER

6. Using the same code as in (5), decode: JJYUWLVSVT

   (The answer will be a 10-letter English word.)