

ENGR 104 Quiz 3 (hand-write the code on the paper)

Close-book, close-notes, and Matlab testing is not allowed during the quiz

1. Vector A=[5 6 -1 0 -99; 3 4 0 5 -99]. Hand-write the Matlab code to complete the following tasks.

- a. Use Matlab to return the average of the numbers in A to A1 (if you are not sure if a **SINGLE** sum() or mean () can do the job, don't do that).
- b. Use Matlab to calculate how many numbers in A are larger than A1?
- c. Use Matlab to kick out all the '-99' in A and return the matrix without '-99' to A2.
- d. Use Matlab, and the 'fprintf()' function to report how many negative numbers are in matrix A? Use the logical functions and index techniques to inverse the negative numbers to positives.

2. Generate one random number: 'B=randi([0,100])'.

Use the 'IF' statement and the 'fprintf' function to report the following statements:

If $B \geq 90$, report:

'B gets an A in this class',

If $80 \leq B < 90$, report:

'B gets a B in this class',

If $B < 80$, report:

'B fails this class'