

Name: SOLUTIONS. $\qquad$

ID Number (last four digits): $\qquad$ (10 points)
Exam Number: ...........

Grade: 1: ... 2: ... 3: ... 4: ... Total: .......

Solve ALL the problems in the space provided Read the Problems CAREFULLY!

There are 2 (TWO) pages this page included

Problem 1. (10 POINTS)
Give short answers to the following questions.
(a) How many bytes in a MATLAB double? 8B
(b) What's the default MATLAB data-type for numbers? double

Problem 2. (10 POINTS)
Represent unsigned base-10 integer 14 in hexadecimal, and 8-bit binary representations. $\mathbf{E}$ or $\mathbf{0 x} \mathbf{E}$ is hexadecimal for 14 , and 00001110 is binary (8-bit) for 14 .

Problem 3. (10 POINTS)
What are the values of $a, b, c$ at the end of the following MATLAB computation?

```
>> a = 10; b = 20; c = 30;
>> a = b + c;
>> b = c + a;
>> c = a + b;
>> a
    a = 50
>> b
    b = 80
>> c
    c = 130
```

Problem 4. (10 POINTS)
How many variables are reported as available in MATLAB's workspace after the execution of the first who below, and after the second who below?

```
>> clear;clc
>> a=10;
>> b=20;
>> clc
>> who %FIRST who two variables: a, b
>> clear
>> who % SECOND who no variables
```

