

**EOSC 211: Formatted I/O**

Group #: \_\_\_\_\_ Name: \_\_\_\_\_

*Question 1:* What does the code snippet below do?

```
clear all;  
close all;  
  
n=3;  
  
fid=fopen('filenames.txt','w');  
  
for ii=1:n  
    myfile=sprintf('f%1d.txt',ii);  
  
end
```

*Question 2:*

- a) What line of code should be added to the code above to write out the content(s) of variable "myfile" to the file "filenames.txt"
- b) Now write the line of code to close the file

*Question 3:* What does the following code snippet do?

```
x = 1:3:11;  
  
y=sum(x);  
  
fprintf('The sum of the values in x is %4d\n',y);
```

*Question 4:* How would you output the result of computing half the mean value of `x` to a file called "xdata.txt"? You can use the built-in MATLAB function "mean"

*Question 5:* Now write a line of code that will also write the values contained in `x` above to the file `xdata.txt`. Output this information in the first line of the file. Format your output as follows: e.g. if `x = 1:4`, the first line should read

```
x = [1 2 3 4]
```