05-01-2017

MECE101 Final Exam

Name:

Surname:

Number:

**Q1)** The MATLAB function code is given below:

function output1=function\_exam\_q1(a,b)

k=a;

i=0;

while k>=0

k=k-b;

i=i+1;

end

output1=a-b\*(i-1);

end

This function is called in MATLAB as

output1=function\_exam\_q1(15,4)

What is the value of ‘output1’ **(50 points)**

**Q2)** The MATLAB function code is given below:

function output2=function\_exam\_q2(a,b,n)

for i=1:n,

output2(i)=a-b;

a=b;

b=output2(i);

end

end

This function is called in MATLAB as

output2=function\_exam\_q2(0,1,5)

What is the vector ‘output1’ **(50 points)**