28-11-2017

MECE 101 MIDTERM

Name:

Surname:

Number:

Q1) What will be the value of ‘a’, ‘x’ and ‘count’ after the MATLAB code below ise executed? **(25 points)**

x=20;

a=25;

count=1;

while x>=5 & a>=10,

 count=count+1;

 if mod(a,count)==0,

 a=a-5;

 else

 x=x-5;

 end

end

Q2) What will be the value of ‘a’, ‘x’ and ‘count’ after the MATLAB code below ise executed? **(25 points)**

x=20;

a=15;

count=0;

while x>=5 & a<=30,

 count=count+1;

 if x>a

 x=x-5;

 elseif x<a

 a=a+5;

 else

 x=x-5;

 a=a+5;

 end

end

Q3) What will be the value of ‘k’ after the MATLAB code below ise executed? **(15 points)**

x=[1 2 3]

y=[1 1 3]

if x==y

 k=1;

else

 k=0;

end

Q4) What will be the value of ‘k’ after the MATLAB code below ise executed? **(15 points)**

x=[1 2 3]

y=[1 1 3]

if x(1)==y(1) & x(3)==y(3),

 k=1;

else

 k=0;

end

Q5) What will be the value of ‘count’ after the MATLAB code below ise executed? **(20 points)**

count=0;

for i=1:10,

 count=count+i;

end