30-11-2018

MECE 101 MIDTERM

Name:

Surname:

Number:

Signature:

Q1) What will be the value of ‘a’, ‘x’ and ‘count’ after the MATLAB code below ise executed? **(30 points)**

x=10;

a=15;

count=1;

while x>=5 | a>=5,

count=count+1;

if mod(a,count)==0,

a=a-5;

elseif mod(a,count)==1,

x=x-5;

else

a=a-5;

x=x-5;

end

end

Q2) What will be the value of ‘a’, ‘k’, ‘m’ and ‘count’ after the MATLAB code below ise executed? **(30 points)**

a=3;

k=1;

m=1;

count=0;

while a<=15 & a>=2,

count=count+1;

a=a/k;

if m==1

for i=1:2,

a=a+i;

end

m=2;

else

for i=1:4,

k=k+1;

end

m=1;

end

end

Q3) There is a mistake in the code below: Find the mistake and correct it. **(14 points)**

a=1;

b=2;

if a\*b=2

c=5;

else

c=6;

end

Q4) What is the value of ‘c’ after the code is executed **(13 points)**

x=1;

y=2

if x<y

c=5;

else

c=6;

end

Q5) What is the value of ‘c’ after the code is executed **(13 points)**

x=1;

y=1

if x<y

c=5;

elseif x>y

c=6;

else

c=7;

end