Question 1
What is the result of the following lines of code?
a=np.array([0,1])
b=np.array([1,0])
np.dot(a,b)
1 / 1 point

0
1
array([1,1])

Correct
correct

Question 2
How do you perform matrix multiplication on the numpy arrays A and B ? 1 / 1 point
A+B
np.dot(A,B)
A*B

Correct
correct

Question 3
What values does the variable out take if the following lines of code are run?
X=np.array([[1,0,1],[2,2,2]])
out=X[0:2,2]
out
1 / 1 point

array([1,0])
array([1,2])
array([1,1])

Correct
correct, the first index corresponds to the rows the second index corresponds to the columns

Question 4
What is the value of Z after the following code is run?

X=np.array([[1,0],[0,1]])
Y=np.array([[2,2],[2,2]])
Z=np.dot(X,Y)
1 / 1 point

==array([[2,2],[2,2]])==
array([[2,0],[0,2]])
array([[3,2],[2,3]])

Correct
correct, the dot function corresponds to matrix multiplication

Question 5
Consider the following text file: Example1.txt:
This is line 1
This is line 2
This is line 3

What is the output of the following lines of code?
with open("Example1.txt","r") as File1:

   file_stuff=File1.readline ()

   print(file_stuff)
1 / 1 point

==This is line 1==

This is line 1
This is line 2
This is line 3

This is line 1
This is line 2

Correct
Correct

Question 6
What do the following lines of code do?
with open("Example1.txt","r") as file1:

  FileContent=file1.readlines()

  print(FileContent)
1 / 1 point

==Read the file "Example1.txt"==
Write to the file "Example1.txt"
Append the file "Example1.txt"

Correct
Correct, the mode is set to r for read.

Question 7
What do the following lines of code do?
with open("Example.txt","a") as writefile:
   writefile.write("This is line A\n")
 writefile.write("This is line B\n")
1 / 1 point

Write to the file "Example.txt"
<mark>Append the file "Example.txt"</mark>
Read the file "Example.txt"

Correct
Correct.

Question 8
What task do the following lines of code perform?

with open('Example2.txt','r') as readfile:
   with open('Example3.txt','w') as writefile:
       for line in readfile:
           writefile.write(line)
1 / 1 point

<mark>Copy the text from Example2.txt to Example3.txt.</mark>
Check the mode of the open function for each file object.
Print out the content of Example2.txt.

Correct
Correct.

Question 9
Consider the dataframe df. How would you access the element in the 1st row 3rd column
1 / 1 point

df.iloc[2,0]
df.iloc[1,3]
<mark>df.iloc[0,2]</mark>

Correct
correct

Question 10
What function would you use to load a csv file in Pandas? 1 / 1 point

pd.read_csv
pd.read_excel

Correct
correct