

First Name:_____ Last Name:_____ Student Number:_____

Assignment 1 Template

Problem 1 (40 Marks): Fill in the information below based on your data set which was generated using your ID number as the seed for the random number generator.

The first five numbers in your Gaussian data set are:

Sample mean =

Sample standard deviation =

The five number summary is:

Sample median =

Range =

IQR =

Sample skewness =

Sample kurtosis =

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Insert the plots of the relative frequency histogram with superimposed Gaussian probability density function and empirical cumulative distribution function with superimposed Gaussian cumulative distribution function on this page.

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Problem 2 (40 Marks): The first five numbers in your Exponential data set are:

Sample mean =

Sample standard deviation =

The five number summary is:

Sample median =

Range =

IQR =

Sample skewness =

Sample kurtosis =

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Insert the plots of the relative frequency histogram with superimposed Exponential probability density function and empirical cumulative distribution function with superimposed Exponential cumulative distribution function on this page.

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Insert the boxplot comparing the Gaussian and Exponential data here.

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Problem 3 (20 Marks):

Alpha =

Beta =

The first five pairs of numbers in your bivariate data set are:

x

y

Sample Correlation =

Insert the scatterplot of the data here.