Sri Lanka Institute of Information Technology



Lab Submission Lab sheet No5

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Probability and Statistics | IT2120

B.Sc. (Hons) in Information Technology

Exercise

1. Import the dataset ('Exercise – Lab 05.txt') into R and store it in a data frame called "Delivery Times".

```
setwd("C:\\Users\\it24100861\\Desktop\\IT_24100861")

#1
Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
names(Delivery_Times)

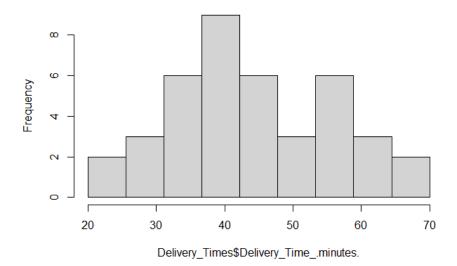
> setwd("C:\\Users\\it24100861\\Desktop\\IT_24100861")
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
> names(Delivery_Times)
[1] "Delivery_Time_.minutes."
```

2. Draw a histogram for deliver times using nine class intervals where the lower limit is 20 and upper limit is 70. Use right open intervals.

```
#2
histogram1 <- hist(
  Delivery_Times$Delivery_Time_.minutes.,
  main = "Histogram for Delivery Times",
  breaks = seq(20, 70, length = 10),
  right = FALSE)

> histogram1 <- hist(
  + Delivery_Times$Delivery_Time_.minutes.,
  + main = "Histogram for Delivery Times",
  + breaks = seq(20, 70, length = 10),
  + right = FALSE)</pre>
```

Histogram for Delivery Times



3. Comment on the shape of the distribution.

The histogram is mostly symmetric but slightly skewed to the right.

4. Draw a cumulative frequency polygon (ogive) for the data in a separate plot.

Cumulative Frequency Polygon(ogive) for Delivery Times

