Sri Lanka Institute of Information Technology

Lab Submission
<Lab sheet 07>

<IT24102228>

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Probability and Statistics | IT2120

B.Sc. (Hons) in Information Technology

Exercise

1)

```
> # 1)
> punif(25, min = 0, max = 40, lower.tail = TRUE) - punif(10, min = 0, max = 40, lower.tail = TRU
E)
[1] 0.375
```

2)

```
> # 2)
> pexp(2, rate = 3, lower.tail = TRUE)
[1] 0.9975212
```

3)

   i.

```
> # 3)
> # i)
> pnorm(130, mean = 100, sd = 15, lower.tail = FALSE)
[1] 0.02275013
```

   ii.

```
> # ii)
> qnorm(0.95, mean = 100, sd = 15, lower.tail = TRUE)
[1] 124.6728
>
```