## Sri Lanka Institute of Information Technology



## Lab Submission Worksheet 7

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**Probability & Statistics | IT2120** 

B.Sc. (Hons) in Information Technology

```
> #EXERCISE
> # 1) P(10<=X<=25)
> punif(25,min=0,max=40,lower.tail=TRUE)-punif(10,min=0,max=40,lower.tail=TRUE)
[1] 0.375
> # 2) P(X<=2)
> # 2) P(X<=2)
> pexp(2,rate=1/3,lower.tail=TRUE)
[1] 0.4865829
> # 3) i.
> # 3) i.
> # or
> # or
> pnorm(130,mean=100,sd=15,lower.tail=FALSE)
[1] 0.02275013
```

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