Reg No. – IT24100871

Module – PS

Lab 07

Exercise

1)

```
Console   Terminal ×   Background Jobs ×

R ▾ R 4.5.1 · ~/ ⇗
> #1
> punif(25,min = 0,max = 40,lower.tail = TRUE)-punif(10,min = 0,max =
40,lower.tail = TRUE)
[1] 0.375
>
```

2)

```
Console   Terminal ×   Background Jobs ×

R ▾ R 4.5.1 · ~/ ⇗
> #2
> pexp(2,rate = 1/3,lower.tail = TRUE)
[1] 0.4865829
>
```

3)

i.

```
Console   Terminal ×   Background Jobs ×

R ▾ R 4.5.1 · ~/ ⇗
> #3
> #i
> 1-pnorm(130,mean=100,sd=15,lower.tail = TRUE)
[1] 0.02275013
>
```

ii.

```
Console   Terminal ×   Background Jobs ×
R ▾ R 4.5.1 · ~/
> #ii.
> qnorm(0.95,mean = 100,sd=15,lower.tail = TRUE)
[1] 124.6728
>
```