Sri Lanka Institute of Information

Technology

Lab Submission

Lab sheet

06

**IT**

**24104301**

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**Probability and Statistics**

**-**

**IT2120**

B.Sc. (Hons) in Information Technology



**Exercise**

1. i) What is the distribution of X?

**X has binomial distribution with n=50 and p=0.85.**

1. What is the probability that at least 47 students passed the test?



1. i) What is the random variable (X) for the problem?

**The random variable(X) is the number of calls received in one hour.**

* 1. What is the distribution of X?

**The random variable(X) follows a Poisson distribution with lambda =12.**

* 1. What is the probability that exactly 15 calls are received in an hour?



