NAME OF STUDENT:

REGISTRATION NO OF STUDENT:

SLOT:

DATE:

LAB EXPERIMENT 3

Random Variable and Probability Distributions

AIM:

Conducting random experiments with probability concepts.

QUESTION:

1. Select 20 numbers at random from the set 1 to 100

2. Sampling with replacement is suitable for throwing of a die.

3. roll 2 dice and find the product of the face values when rolling two dice

4. Combination for nCr (assign values for n and r)

5. Permutation (assign values for n and r)

6. To find the binomial co efficient of 8th to 10th terms

7. Pascal's triangle.

8. Tossing '3' coins with library 'prob'

9. Roll '4' dice with library 'prob'

10. To find expectation and variance for Discrete Random Variable.

. A discrete random variable X has the following probability distribution:

x	13	18	20	24	27
$P(x)$	0.22	0.25	0.20	0.17	0.16

compute expectation and variance.