Practical- 9

<u>Discrete & Continuous Probability Distributions</u>

(1) Binomial Distribution

1	А	В	С	D	
2	Binomial Distribution				
3	Р	0.375	n	5	
4					
5	Χ	P(x)			
6	0				
7	1				
8	2				
9	3				
10	4				
11	5				

Go to B6 and type =BINOMDIST(A6,\$D\$3,\$B\$3,FALSE) And drag the formula up to B11.

(2) Poisson Distribution

13	A	В	С	D	
14	Poisson Distribution				
15	n	100	mean	1	
16					
17	X	P(x)			
18	0				
19	1				
20	2				
21	3				
22	4				
23	P(x<=4)				
24	P(x<=4) p(x>=4) = 1-p(x<4) = 1-p(x<=3)				

Go to B18 and type =POISSON(A18,\$D\$15,FALSE) And drag the formula up to B22.

Go to B23 and type =POISSON(4,1,TRUE).

Go to B24 and type =1-POISSON(3,1,TRUE)

(3) Standard Normal Distribution

25	А	В	
26	Standard Normal Distribution		
27	Z	pdf	
28	-3		
29	-2.9		

Select cells A28 & A39 & drag it up to the cell A88. The entries in the cells from a26 to A86 should be -3 to +3.

Go to cell B28 and type = NORM.S.DIST(A28,FALSE)

And drag the formula upto B88.

Select data A27 to B88 _____ Insert ____ Recommended Chart and select Line chart.

Practical- 10

Correlation

	Α	В
1	Х	Υ
2	0	2
3	10	12
4	2	4
5	12	14
6	6	8
7	10	15
8	5	8
9	6	12
10	12	18
11	9	15

Go to A13 and type

=CORREL(A2:A11,B2:B11) & Enter.

Go to A14 and select Formulas More Functions Statistical CORREL

In the Array1 type A2:A11

In the Array2 type B2:B11

Press OK.