Q. No	Question Consider a random variable X that follows Poisson distribution with mean as 4					Marks	
	Consider a random variable X that follows Poisson distribution with mean as 4 then find the probability that i) X takes a value less than 5 ii) X takes a value greater than 5 iii) X lies between 2 and 5 Consider the following probability distribution. $f(x, y) = \frac{k}{2}e^{-(x+y)}, 0 < x < \infty, 0 < y < \infty$ i) Find k value ii) Check whether x and y are independent or not. iii) Find $P(0 < x < 2, 0 < y < 5)$ iv) $P(0 < x < 2/0 < y < 5)$						
	Let f(x) = k(x + 1)/2 where 0 < x < 2, = 0,otherwise Then find i) k value ii) P(1/2 < x < 2) iii) P(X > 1/4) Consider the following probability distribution of X and Y.						
	Y	X					
		0	1	2	3		
	0	0.05	0.25	0.05	0		
	1	0.05	0.15	0.05	0.05		
	2	0.10	0.15	0.10	0		
	i).Find marginal ii).Find marginal iii).Find P(X < 2 iv). Find P(X < 2	l distribution of ' (/ Y < 2)					