Assignment No.	1	Name of the Assignment Setter:		Dr. Pramod Kadam	
Course:	MCA	Class:	MCA II	Semester:	III

Subject:	**Probability and Graph Theory**

Q.1)	Attempt ANY ONE of the Following (1000 Words)		(10)
	a)	Describe various components of theory of Probability	
	b)	Illustrate the Binomial distribution with its utility value in real life situation	
Q.2)	Attempt ANY TWO of the Following (800 Words)		(12)
	a)	Discuss and derive the relationship between Poisson and Normal distribution.	
	b)	Define and discuss the Bayes's Theorem.	
	c)	Discuss various types of sampling techniques, in line with advantages and disadvantage of each type.	
	d)	Define term 'Graph' and Discuss their types with suitable examples.	
Q.3)	Write Short Notes on (ANY TWO)		(08)
	a)	Addition theorem of probability	
	b)	Testing of Hypothesis	
	c)	Shortest path algorithms	
	d)	Theorem on Expectation	

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