		Guru Nanak Dev Engineering College, Ludhiana												
								t of Information Technology						
		Program			B.Tech.(		Semester				4 Ctatistics			
		ct Code			BSIT-10		Subject Title				Probability and Statistics			
	No.				1	Coi	Course Coordinator(s)				Rupinder Kaur			
	Max.	Max. Marks			24	Tin	Time Duration			1 hou	1 hour 30 minutes			
	Date of MST				13 <sup>th</sup> Feb.	Rol	Roll Number							
	Note:	Note: Attempt all questions												
	Q.	Question									COs, RBT level	Marks		
	(Q)	State Type I and Type II error with suitable example.										CO4, L1	2	
	(22)	Contrast Primary and Secondary data with four valid points of each.										CO1, L4	2	
	(Q3).										CO1, L3	4		
		Warks	than	tha		Less than 20	Less than 25	Less than 30	than	than	than 45	604		
		No of students		224		582	634	644	650	653	655			
स्मिन थ		From the following data solve the value of median.											x * 1	
	^ \Q4	Determine first four central moments from the following:									CO1, L3	4		
	)T	Sales         40-50         50-60         60-70         70-80         80-90           No of companies         10         25         30         23         12								64	5			
	(Q5)	Investigate Karl Pearson's coefficient of skewness from the following										CO5, L6	4	
		data												
		Profit	70-	80-	90-	100-	11	0-	120-	130-	140-			
		(Rs. Lakhs)	80	90	100	110	12		130	140	150	8470		
		No of Cos	12	18	35	42	50		45	30	8 _	-2073		
	Q6	A sample analysis of examination results of 500 students were made. It was found that 220 students had failed, 170 had secured a third class, 90 were placed in second class and 20 got a first class. Test are these figures commensurate with the general examination result which is in the ratio of 4:3:2:1 for various categories respectively?  (Table value of Chi- Square for 3 d.f at 5% level of significance is 7.81)										CO4, L5	Big Ay	
	3	2=23.66												
		Course Outcomes (CO) Students will be able to												
	1	Demonstrate the measures of central tendency to analyze the given data set											1	
	2	Create the histogram for a given data set												