				Register No.	
	FIRST SEMESTER UG DE	EGREE EXAM	IINATION		
		(CUFYU	(GP)		
	STA1MN101 - DESCRI				
axi	imum Time :2 Hours	024 Admissio	n onwards	Maximum Marks :70	
		Section	<b>A</b>	Transmin Transmin Transmin	
	All Q	Questions can	be answer	ed.	
	Each Question	carries 3 mai	rks (Ceilin	g : 24 Marks)	
	Define (i) regishle (ii) absorbetic	o (:::) doto o			
	Define (i) variable (ii) observation (iii) data set  Define discrete and continuous variables.				
	Define secondary data. Mention any two of its merits.				
	Define (i) class interval (ii) class mark (iii) frequency of a class.				
	Differentiate between one dimensional and two dimensional diagrams.				
	Define (i) central tendency (ii) average				
	Define median. Why median is considered as a partition value?				
	· · · · · · · · · · · · · · · · · · ·				
	Define (i) quartile deviation (ii) variance				
	Define (i) random experiment (ii)	) sample space	2.		
0	State the conditions for the mutua	al independen	ce of three	events A, B and C.	
		G			
		Section B	1		
	All Q Each Question	Questions can carries 6 ma			
1	Define primary data. Explain its i			<b>9</b> • • • • • • • • • • • • • • • • • • •	
2	Explain various types of bar diag	rams.			
3	Sketch a frequency polygon for the	he following o	lata:		
ر	Class: $0-10$ $10-20$ $20-4$			90 – 100	
	Freq.: 5 12 16		8	7	
1	Find the mean and median for the				
	Class: $0 - 10  10 - 20  20 - 3$	30 - 40	40 - 50	50 - 60	
	Freq.: 4 8 14	10	8	6	
5		11 '			
	Define geometric mean (GM) and beservations 6, 10, 14, 20 and 24	a narmonic m	ean (HM).	Calculate GM and HM for the	

16	Define partition values. Explain quartiles, deciles and percentiles and their inter relations.					
17	If $P(A) = 0.6$ , $P(B) = 0.4$ and $P(A / B) = 0.75$ , find (i) $P(AUB)$ (ii) $P(AUB^c)$ (iii) $P(A^cUB^c)$					
18	Define (i) mutually exclusive events (ii) independent events. If A and B are events with $P(A) = 0.4$ , $P(B) = 0.3$ , obtain $P(AUB)$ when A and B are (a) mutually exclusive (b) independent.					
Section C						
Answer any ONE .Each Question carries 10 marks (1x10=10 Marks)						
19	(i) Write a short note on skewness and kurtosis.					
	(ii) Calculate the mean deviation about the mode for the following data:					
	Class: $0-10$ $10-20$ $20-30$ $30-40$ $40-50$ $50-60$ $60-70$					
	Freq.: 6 13 19 22 14 10 6					
20	State Bayes' theorem. Two boxes A and B contain respectively 3 red, 6 blue balls and 5 red, 3 blue balls. One of the boxes is selected at random and two balls were drawn. If the balls obtained are one red and one blue, what is the probability that they were from the box B?					