

**FIRST SEMESTER FYUGP EXAMINATION NOVEMBER 2024****MINOR****STA1MN105 DESCRIPTIVE STATISTICS**

Time : 2 Hrs

Maximum Marks : 70

BL - Bloom's Taxonomy Level (1 to 6)

CO - Course Outcome

Section A							Ceiling Marks : 24		
Answer all questions. Each carries 3 marks.									
No.	Question						M	BL	CO
1.	Explain Qualitative and Quantitative data using suitable example.						3	2	CO1
2.	State the significance of a sample in statistics.						3	4	CO1
3.	Describe the key features of a bar chart.						3	1	CO2
4.	Find the median of the following data. 10,12,8,16,26,28,32,21,16						3	3	CO3
5.	Find the median for the following distribution.						3	6	CO3
	Class	10-20	20-30	30-40	40-50	50-60	60-70		
	Frequency	8	15	21	42	18	12		
6.	Write two specific uses of Geometric mean.						3	2	CO3
7.	Calculate geometric mean for the following items. 135,129,170.138,156,135,149,150						3	3	CO3
8.	List any three characteristics of an ideal measure of dispersion.						3	1	CO4
9.	Define the following. a).Range b).Quartile deviation c).Mean deviation						3	2	CO3 CO4
10.	If the mean and coefficient of variation of a data are 15 and 48 respectively, then find the value of standard deviation.						3	4	CO4
Section B							Ceiling Marks : 36		
Answer all questions. Each question carries 6 marks.									
No.	Question						M	BL	CO
11.	Define primary data and different methods of collecting primary data						6	2	CO1
12.	Define the following. a).class limits b).class mark c).working class						6	4	CO1

13.	Draw a more than and less than ogive for							6	6	CO2		
	class	10-20	20-30	30-40	40-50	50-60	60-70				70-80	
	Frequency	8	20	34	48	24	36				22	
the following data.												
14.	Present the following data in multiple bars .The following table shows the results of statistics examination in 2005,2006 and 2007.									6	6	CO2
	Year	I class		II class		III class		Failed				
	2005	2,000		4,000		5,000		3,000				
	2006	2,500		6,000		3,000		2,300				
	2007	3,000		6,000		7,000		1,800				
15.	Calculate the mean for the following frequency distribution.							6	3	CO3		
	class interval	0-8	8-16	16-24	24-32	32-40	40-48					
	frequency	8	7	16	24	15	7					
16.	A class consists of 50 students, out of which 30 are girls. The mean of marks scored by girls in a test is 73 , and that of boys is 71. Determine the mean score of the whole class.									6	5	CO3
17.	Describe the merits and demerits of harmonic mean and geometric mean.									6	2	CO3
18.	Calculate the standard deviation from the following data.									6	3	CO4
	Marks	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100			
	No.of student	5	7	10	15	14	20	11	9			
<b>Section C</b>												
Answer any 1 question. Each carries 10 marks. (1x10=10 marks)												
<b>No.</b>	<b>Question</b>									<b>M</b>	<b>BL</b>	<b>CO</b>
19.	Draw a histogram from the following data and locate the mode from the histogram.									10	5	CO1 CO2
	Mid value	18	25	32	39	46	53	60	67			
	Frequency	10	15	40	30	16	8	4	2			
20.	Find Q1,Q2 and Q3 for the following data.									10	3	CO4
	Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80			
	No.of students	7	15	22	35	48	22	16	8			

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