

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2014/2015

SECOND YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF ARTS IN URBAN & REGIONAL PLANNING WITH INFORMATION TECHNOLOGY

(CITY CAMPUS)

PUR 222: QUANTITATIVE TECHNIQUES

Date: 24th March, 2014

Time: 9.00 - 11.00 a.m.

INSTRUCTIONS:

Answer Question ONE and any other TWO questions.

PUR 222: QUANTITATIVE TECHNIQUES

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Instructions: Answer Question 1 and any other two questions

1. a) Calculate the median, Q, Q₃, D₆,P₇₀ from the following data.(20 marks)

CLASS INTERVALS	FREQUENCY	
0-5	17	
5-10	30	
10-15	35	
15-20	49	
20-25	43	
25-30	33	
30-35	26	
35-40	15	

 b) Calculate the mean deviation and co- efficient of M.D from the following data.10marks

CLASS	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
FREQUENCY	5	8	12	15	20	14	12	8

2. Compute standard deviation and co efficient of variation.20marks

MARKS	0-10	10-20	20-30	30-40	40-50
NO. OF STUDENTS	7	6	15	12	10

Find the range and co efficient of range of the following distribution.20marks

CLASS	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45
FREQUENCY	10	20	27	36	52	42	18	6

 Draw a scatter graph for the following data and comment on the co relation.20marks

х	1	2	3	4	5	6	
У	25	16	9	4	1	0	

Find Karl Pearson's co efficient of co relation between traffic density and accident rate from the following information available. 20marks

2 4	
4	
5	
5	
8	
15	
24	
30	
32	
	5 8 15 24 30

6. From the data below find the two regression equations.20marks

х	1	2	3	4	5	
V	2	5	3	8	7	