oct; 12

MN10 AFB

TIME: 2 Hrs.

Marks: 60

Q.1	a.	Draw	less	than	curve	of	the	following	dist <sup>n</sup>	also	locate	Median.	
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(5)

Travelling time in minutes	30-40	40-50	50-60	60-70	70-80
No. of Employers	50	130	200	70	60

**b.** Find the missing Frequency given that the \_\_\_\_ Arithmetic Mean of Advertising Expenditure is Rs. 5625.

(6)

	Advt. Expenditure in R	s.	No. of Companies.
	2000 - 3000	1480	10
	3000 - 4000	nce	15
	4000 - 5000	1.2	30
	5000 - 6000	10 orniwa	dard deviation of the falls
	6000 - 7000	14	65 2 10 04 1 23
L	7000 - 8000	16	25 08

c. Write Merit & De-merit of Range and Quartile deviation.

(4)

OF

Q.1 a. Find Median and Mode of the distribution Data given below.

(6)

10-20	20-30	30-40	40-50	50-60
50	150	175	100	25
		and the second s		10-20     20-30     30-40     40-50       50     150     175     100

b. The following table gives the distribution of 100 families according to Expenditure. If Mode of the dist<sup>n</sup> is 24, Find the missing Frequencies x & y.(6)

0 - 10	10 - 20	20 - 30	30 - 40	40 - 50
14	x	27	v	15
	0 - 10	0 - 10   10 - 20   x	0 - 10   10 - 20   20 - 30   14   <b>x</b>   27	0 - 10   10 - 20   20 - 30   30 - 40   14   <b>x</b>   27   <b>v</b>

c. Write Short Note on Primary & Secondry data.

(3)

Q.2 a. Calculate Quartile Deviation and Coefficient of Quartile Deviation.

(5)

No. of Cracks	4 - 8	8 - 12	NAME AND ADDRESS OF THE OWNER, THE OWNER, WHEN PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE OWNER	16 - 20	
No. of Road Segment	2	5	11	13	9

D.	Find Rank Correlation	on of the given data.	. La la	 -
	Rank According	Ponla Accordi	•	

(5)

(5)

(5)

(5)

Rank According	Rank According
to Seniority	to Efficiency
1	5
2	ndicates tulpmarks.
3	ing Calculagrs.
4	1
5	spulsory. 7
6	8
7	6
also locate 18 diam	of the folloging dist

Q.2 a. Find for the following data.

$$\Sigma x = 98,$$
  $\Sigma x = 729$   
 $\Sigma y = 55,$   $\Sigma y = 406$   
 $\Sigma xy = 400,$   $\Sigma x = 40$ 

$$\Sigma xy = 400,$$
  $N = 40$ 

Pollutants	No. of Sites
5 - 13	30 25
13 - 21	64
21 - 29	veb e36 and ba
29 - 37	16
37 - 45	ibution 40.ta gi

Q.3 a. Given the following regression equations. Find 
$$\overline{x}$$
,  $\overline{y}$  & . (6)  $2x + 3y - 61 = 0$   $x + y - 25 = 0$ 

Road Segment

Year		Quarters					
102000	I	П	III	IV			
2 1 05	52	52	51	53			
2	54	53	51	48			
3	51	50	50				

MN10 AFB and Wanter the State of Index No. in Eusiness.

h. Find Expectation & variance.

ind Expectation	1 Co vario			THE VIEW OF THE PARTY	6	
Demand	1 (8)	2	3	4	5	6
Probability	K	0.15	0.20	0.25	0.20	0.10
Tiobability		.29	g Averag	niyoM yi	our year	Find

c. Write Short Note on Error 1 & Error 2.

ماه ما	****	
* 1	103	
	100	
		1996
	102	1998
		1999

(5)

(5)

Find Fisher's Index Number 15, 186 data gives

		- TE	BaseYe	Commodity
			12	Α
	Ja Satte			B
			14	
	0818			
			15	E

Q.4 a. Two letters are drawn at random from the Word RANDOM, on after another. Find the Probability that 40 to 34 75

both are Vowels

The first of the two groups has 100 its atmandance 100, 275, 1799 which are the Combined group woy at the first of the Combined group woy at the Become group.

Jaminana of the	

108	25	20	15	-10	X
					Probability
20					

Write Short Note on Sampling.

SIO