Note: 1) Use of simple calculator is allowed.
2) Graph paper will be provided on demand.

Y

[Histogram,		lculate mode.			
For large da	ta	_ data method i	s good.		
Simple, Gro	up]				
Find mode o	f 5,7,6,7,4,3.	Z=			
[3,7]					
Difference be	etween larges	st value & smalle	st value is ca	lled	
Range, Qua	rtiles]				
	_ has given fo	ormula for rank	corretion.		
Karl pearso	n, Spearsme	n]	n x n y	and the second	
Range for co	rrelation is _	•		(2	AND THE RESERVE TO TH
[1 to 5, -1 to	1]				J,
Seasonal Inc	lice method is	s on	Basis.	(9)	
[Monthly, qu	arterly]			Sal of	
If $\sum p_1 q_1 = 586$	$\sum p_0 q_1 = 445$	5, then $I_P = \underline{\hspace{1cm}}$			
[113.69,					
II 3 coins are	tossed simu	Itaneously, then	n(s)=	•	
[3, 8]	C				
[monetary, m	ior expected	vava	lue.		
Imonetary, ii	laximumj				
True & false	(Any Seven	i)			
Published da	ta is also cal	led secondary da	ata.		
Mean is usef	ul in day to d	lav life.	····		
Decile means					
		or in rank corre			
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			ction.		
bxy & byx ca	n be positive	and Nagative.		on the base of	past records
bxy & byx ca Least square	n be positive method is al	and Nagative.	future value c	on the base of n 100 values.	past records
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b) Find two regression equations. If \bar{x} = 50, \bar{y} = 40, sd(x)=4, sd(y)=7, r=0.4. c) Find 3 yearly Moving Average of the data given

07 M

08 M

year	01	02	03	04	05	06	07	08	09	10
Sales	14	18	14	17	22	25	30	35	29	34

d) Find the Trend using seasonal Indices Method.

07 M

Year	I	II	III	IV
2003	42	46	49	52
2004	50	52	55	48
2005	48	50	53	50

Q.4. a) Find I_L , I_P , I_F

08 M

Com	p _o	q_o	p_1	q_1
A	35	3	42	4
В	. 20	4	30	3
C	25	5	32	5
D	40	2	56	3

b) Find cost of Living Index Numbers

07 M

Com	p _o	p 1	weight
A	18	20	30
В	15	20	20
C	22	30	40
D	25	30	10

OR

c) If Two. Dicc are thrown at a time. Find the probability of getting.

08 M

- i) both are same numbers
- ii) sum of both will be 9.
- d) Find E(x) & V (x)

07 M

X	10	20	30	40	
p(x)	0.4	0.3	0.2	0.1	

Q.5. a) Find the best course of Action using E.O.L

08 M

Pay- off table

State of		Course	of Action		T
Nature	A1	A2	A3	A4	Prob.
S1	70	80	50	60	0.4
S2	30	20	120	50	0.3
S3	60	30	80	70	0.2
S4	40	50	70	60	0.1

b) Calculate (i) Maximax

ii) Laplace criteria

07 M

15 M

State of		Course o	of Action	125 (200)
Nature	A1	A2	A3	A4
S1	100	80	60	70
S2	60	120	40	70
S3	40	70	150	60
S4	50	30	20	40

OR

Short Notes (Any - 3)

- 1. Secondary data
- 2. Scattered Diagram
- 3. Parts of pay off table

4. Merits of Mode

5. Sample Space