	FUBCBE 10	0 M1 10 77)	S	eat No:-	
Duration:- 2½hrs		517041223	5		 Marks:- 75
Note:- A)All the ques					Mark3 75
	on carries equa	· · · ·			
	will be provided o				
[Q:1] (A) SELECT A PROPER A	NSWER FROM G	IVEN MULTIF	PLE CHOIC	E QUESTION. (	(ANY 8) 8M
<ol> <li>Find the mode of 5,6,7,5,6,7,8,</li> <li>Quartile divides the data in</li> </ol>	6,9. Z = (	5,6,7)		5.5	(CO1,R )
2) Quartile divides the data in	parts. (3,4/5	)			(CO1,R)
3) Rank Correlation is given by _			pearsmen)		(CO1 ,R)
4) If $bxy = 0.4$ , $byx = 0.5$ , then r =	~			a a	(CO2,R)
5) depends on the age of p	erson and sum ass	sured. (Bonus,	Premium, D	Discount)(CO1,R	
6) is given the formula c					
7) The maximum outcomes of an					
8) In criteria we tak					(CO2,R)
9) If Q3 is 50, Q1 is 30, then CQI				,	(CO1,R)
10) If the correlation between X a				ong, Weak, Norr	
			<b>`</b>		
[Q:1] (B) STATE WHEATER THE FO	OLLOWING STATE	MENTS ARE TR		SE. (ANY 7)	7 M
1) Mode means maximum freque					
2) Quartile Divides the data in 4 p		. ×.		2	
3) Diffence between the Highest a		ation is called	Range (CO	1 R) 😪	
4) Bxy and Byx both are postive o				_,,,,	
5) Insurance policy is good option		al health for far	mily (CO1 R	a x <sup>2</sup>	
6) Base year is the latest year give				,	
7) In Probability, 3 coins has 8 out		_, ,			
8) Course of actions are the proje		ct for business	(CO2 B)		
9) Combine mean is not useful in			. (002).()		(e)
10) Fisher has given rank correlat					
	(002	,,			. ×
[Q:2] SOLVE THE FOLLOWI	NG				(8+7 = 15)
A) Find the Mode of the followin					
C. I.	0-20 20-40		60-80	80-100	
B) Find the Median for the follow	5 6	8	7	4	
C.I.	0-10 10-2		30-40	40' 50	
F	3 4	6	5	40-50	
		OR	5		
C) Find the Standard Deviation from	om the following d			10 Z	

ATUT

1913724

C.I	0-20	20-40	40-60	60-80	80-100
F	2	3	6	5	4

D) Find the range and co-efficient of range of 15, 20, 18, 23, 25, 28. (CO1,R)

[Q:3] SOLVE THE FOLLOWING A) Find the Karl Pearson's coefficient of correlation. (CO1 ,A )

(8+7=15)

ſ	X	5	6	8	7	4
-	Y	3	4	6	5	4
- L.	1		1 coming		10. 1	C. 1 dla av

B) Find the two regression equations and find the value of x if y = 10, and find the value of y when x is 15. (CO1,A)

X	4	6	8	10	12
Y	6	5	7	8	9
-		0	R		

C) If two dice are thrown at a time, find the probability of getting. (i) the sum of both is 9 (ii) both are equal (CO1,A)

D) Find the Best Course of Action using E.M.V. Criteria. (CO1,A)

State of	12	Course	of Action		- Probability
Nature	A1	A2	A3	A4	Tiobuonity
C1	30	80	60	80	0.4
S1 S2	50	70	70	20	0.3
S2 S3	70	60	70	50	0.2
S5 S4	80	40	50	30	0.1

## [Q:4] SOLVE THE FOLLOWING

A) D)Find lespeyers, Paaches and fishers index numbers. (CO1,A)

O

Commordity	Po	P <sub>1</sub>	Qo	O1
Commordity	10	11	10	<u> </u>
A	24	27	10	9
B	27	30	8	7
C ·	28	32	6	5
D	32	40	5 •	4
		Contract of the second s		

B) Find the Cost of living Index numbers. (CO1,R)

40
60
70
30

C) Mrs. Mishra wants to take a policy of Rs. 500000 as sum assured. The company is charging Rs. 54 per thousand less Rs. 3 Discount on abouve 300000 sum assured plus Rs. 2 on monthly premium charges. Calculate the premium paid by Mrs. Mishra if she took monthly plan. (CO1,R)

D) Find the current age of Mr. Deepak as on today if his date of birth was 02-09-2002.(CO1,R)

## [Q:5] SHORT NOTES (ANY 3)

1)Types of Averages (CO1,2,R)

2) What is Index Numbers (CO1,2,R)

- 3) Scatter Diagram (CO1,R)
- 4) What is pay-off table (CO1,R)
- 5) Insurance and types of Insurance (CO1, R)

(5+5+5=15)

(8+7 = 15)