Roll No.

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## **COER University**

END SEMESTER EXAMINATION, EVEN SEM 2022-23 (BACK PAPER)

Time

Program Name : BBA, B.COM.(CFA) Course Name : Business Statistics

: 3 hours

Total Marks : 100 Semester ; II Course Code : SOS106

Note: All questions are compulsory. No student is allowed to leave the examination hall before the completion of the time.

ume.		CO	BL
Q. No 1	Attempt Any Four Parts, Each Question Carries 5 Marks.	CO 1	1
(a)	Define Bar graph and Histogram with example.	CO 1	1
(b)	Write short notes on Frequency Curve & Ogive.	CO 1	1
(c)	Define inclusive and exclusive table.	CO 1	4
(d)	Distinguish between Individual series and discrete series.	CO 1	4
(e)	Distinguish between Less than and more than frequency table with surface energy		

Q. No 2	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO 2	1
(a)	Define the sources of primary & secondary data.	CO 2	1
(b)	Define the mean, median and mode.	CO 2	4
(C)	Distinguish between geometric mean & harmonic mean.	CO 2	2
(d)	Find median of the following data: Wages (in Rs) :60-70 50-60 40-50 30-40 20-30		
	Number of workers :7 21 11 6 5	CO 2	3
(e)	Find the $D_5$ for the following data: 11, 25, 20, 15, 24, 28, 19, 21.		

					E Mai	-ke		CO	BL
Q. No 3	Attempt An	y Four Pa	rts. Each Que	stion Carr	les 5 mai	N3.		CO 3	1
(a)	Define skewness and types of skewness.				CO 3	1			
(b)	Define quartile deviation and coefficient of quartile deviation with example.				CO 3	1			
(C)	Define standard deviation and coefficient of standard deviation.				CO 3	3			
(d)	Compute star	ndard devia	ation about med	lian for the	10	11	12	3	
	Size	6	7 8	113	8	- 5	4		
	frequency	3	6 9	Cleanmess f	rom the ta	able given	below :	CO 3	3
(e)	ComputeKar	1 Pearson's	Coefficient of	SKEWIICSS I	50	60			
	x 10	20	30	40	07	100			
	y 15	32	51	78	91	109			

	Carries 10 Marks	CO	BL
Q. No 4	Attempt Any Two Parts. Each Question Carries to Harks: Attempt Any Two Parts. Each Question Interpret r when $r = 1, -1$ and 0.	CO 4	1
(a)	Define Karl Pearson's coefficient of correlation. Interpret 1, value 2,	CO 4	2
(b)	What is a scatter diagram? How is it useful in the study of contribution the following data :	CO 4	3
(c)	Calculate the coefficient of correlation between $x$ to $y$ some non- $\sum (x - \bar{x})^2 = 136$ , $\sum (y^2 - \bar{y}) = 138$ , $\sum (x - \bar{x})(y - \bar{y}) = 122$		

	The Augustion Carries 10 Marks.	CO	BL
Q. No 5	Attempt Any Two Parts, Each Question Carries 10 Harker	CO 5	3
(a)	Discuss addition and multiplication law of probability.	CO 5	2
(b)	Find the probability that a leap year has 52 Sundays.	CO 5	1
(c)	Define the following terms:		
	i. Equally likely events		
	ii. Mutually exclusive events		
	iii. Independent & dependent events		

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