Roll No.

Time

0

0

0

0

)

9

00000

3

0

)

3

)

1

)

COER University

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

: 3 hours

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

Total Marks : 100 : II Course Code : SOS106

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

Q. No 1	Attempt Any Four Parts. Each Question Carries 5 Marks.	СО	BL
(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	1
(d)	Distinguish between Individual series and discrete series.	CO 1	4
(e)	Distinguish between Less than and more than frequency table with suitable example.	CO 1	4
0 10 2		CO	BL
Q. No 2	Attempt Any Four Parts. Each Question Carries 5 Marks.		
(a)	Define the sources of primary & secondary data.	CO 2	1

(a)	Define the sources of primary & secondary data.	CO 2	1
(b)	Define the mean, median and mode.	CO 2	1
(c)	Distinguish between geometric mean & harmonic mean.	CO 2	4
(d)	Find median of the following data :	CO 2	2
	Wages (in Rs) :60-70 50-60 40-50 30-40 20-30		
	Number of workers :7 21 11 6 5		
(e)	Find the D_{c} for the following data: 11, 25, 20, 15, 24, 28, 19, 21.	CO 2	3

Q. No 3	Attem	Attempt Any Four Parts. Each Question Carries 5 Marks.						СО	BL		
(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	1			
(d)	Compute standard deviation about median for the following data :									CO 3	3
	Size	6	ALV.	7	8	9	10	11	12		
	freque	ncy 3	at spine -	6	9	13	8	5	4	1	
(e)	ComputeKarl Pearson's Coefficient of Skewness from the table given below :									CO 3	3
	x	10	20	200	30	40	50	60	Y I		
	v	15	32		51	78	97	109			

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

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

- -29

-----End of Paper-----

Semester

29

1