Roll No.

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COER University

END SEMESTER EXAMINATION, EVEN SEM 2022-23

Time : 3 hours

Program Name : B.Com.(Honors/CFA)

Course Name : Business Statistics

Total Marks : 100 Semester : II Course Code : UVC2009

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.	CO 1	2							
(a)	"Statistics may be defined as the Science of collection, presentation, analysis and									
	interpretation of numerical data" Comment.									
(b)	Define a pie diagram? Explain with example.	CO 1	1							
(c)	Define a Line chort with example and explain why we use Line chart.									
	Define a Line chart with example and explain why we use Entert									
(a)	Write short notes on Frequency Curve & Ogive.									
(e)	Define Ogive for the given table and why we use Ogive.									
	x 0 5 5 10 10 15 15 20 20 - 25 25 -30 30 - 35 35 - 40									
	\mathbf{x} 0-5 5-10 10-15 15-20 20-25 25 50 50 50 14									
	y 7 10 20 13 17 10 14 9									

O No D	Attempt Any Four Parts Fach Question Carries 5 Marks.	CO	BL
Q. NO Z	Attempt Any Four Parts. Each Question Carries 5 Martes	CO 2	1
(a)	Define stratified sampling with example.		-
(h)	State the difference between judgmental sampling and Quota sampling.	CO 2	2
	State the difference set of a garden in the methods of data collection	CO 2	1
(C)	Define how many types of data and what are the methods of data concernen.		2
(b)	Explain the limitations of sampling method.	CO 2	2
(e)	Explain the difference between random sampling and systematic sampling with	CO 2	2
	examples		

O No3	Attempt Any Four Parts, Each Question Carries 5 Marks.								BL		
(a)	Find, D ₅ for the frequency distribution of monthly income of workers in a factory :										
()	Income (in thousands)	0 - 4	4 - 8	8 - 12	12 - 16	16 - 20	20 - 24				
	No of persons	10	12	8	7	5	8				
(b)	The following observations are arranged in ascending order. The median of the data is 25 find the value of x. $17 \times 24 \times 17$ 35 36 46										
	Comute mediant	for the foll	mying data	24, X . 7, 20,				CO 3	3		
(C)	Compute median		uning auto		-						
	Mid value 5	15	25	35	45	55 65	75				
	Frequency 7	10	15	17	8	4 6	7				
(d)	From the followin	g data, find	the missi	ng frequency	when mean	is 15.38.		CO 3	3		
(-)	Size :- 10	12	14	16 18	8 20	•					
	Frequency -: 3	7		20 8	5						
(e)	Find D_4 and D_8 for	the follow	ving data :	10, 15, 7, 8,	12, 13, 14, 11	1, 9.		CO 3	1		

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Q. No 4	Atten	npt Any	Two Pa	arts. Eac	h Ouesti	on Carrie	s 10 Mai	ks.			CO	BL
(a)	Compute the standard deviation for the following data about median : 6, 15, 4, 10, 12, 11, 5, 3, 16.											36
(b)	Define standard deviation and coefficient of standard deviation. Also meration its merits and demerits											1
(c)	c) Find Karl person's Coefficient of skewness for the following data :										CO 4	16
	x	0 -10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60	0			6
	<i>y</i>	10	12	18	25	16	14	8	_			C

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Q. No 5	Attempt Any Two Parts, Each Question Carries 10 Marks	CO	RI
(a)	Given $\bar{X} = 40$, $\bar{Y} = 6$, $\sigma_x = 10$, $\sigma_y = 1.5$ and $r = 0.9$ find the line (CO 5	3
(b)	From the following data find Karl Pearson's coefficient of correlatio :- Height of father :- 66 68 69 72 65 59 62 67 61 71	CO 5	1
	Height of son :- 65 64 67 69 64 60 59 68 60 64		T
(c)	The following regression equations were obtained from a correlation table 5y - 8x + 17 = 0 and $2y - 5x + 14 = 0find (a) the correlation coefficient (b) the mean value of x(0) the mean value of y(0)$	CO 5	1

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