Welcome to Deep Institute

Assignment for DSSSB Statistical Assistant Exam 2023



Guided by - Sudhir Sir



sudhirdse1@gmail.com inquiry@deepinstitute.co.in

Welcome to Deep Institute



Guided by - Sudhir Sir

🕓 9999001310



🕓 9999001310

35.	When it comes to comparing two or more	42	The store level deviation of 10, 16, 10, 16
	distributions we consider	43.	The standard deviation of, 10, 16, 10, 16, 10, 16, 10, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16
	a. Absolute measures of disperstion		10, 10, 16, 16 is
	b. Relative measures of dispersion		a. 4 b. 6 c. 3 d. 0
	c. Both (a) and (b)	4.4	
	d. Either (a) or (b).	44.	For any two numbers SD is always
36.	Which measure of dispersion is the		a. Twice the range
50.	quickest to compute?		b. Half of the range
	a. Standard deviaiton		c. Square of the range
	b. Quartile deviation		d. None of these.
	c. Mean deviation	45.	If all the observations are increased by 10,
	d. Rnage		then
37.	Which measures of dispersions is not		a. SD would be increased by 10
57.	affected by the presence of extreme		b. Mean deviation would be increased by
	observations?		10
		-	c. Quartile deviation would be increased
	a. Range b. Mean deviaiton		by 10
			d. All these three remain unchanged.
	c. Standard deviaiton d. Quartile deviaiton	46.	If all the observations are multiplied by 2,
38.	Which measure of dispersion is based on		then
30.	the absolute deviaitons only?		a. New SD would be also multiplied by
		2	y 2
		\ [×]	b. New SD would be half of the previous
	b. Mean deviaiton	/	SD
	c. Quartile deviaiton	-	c. New SD would be increased by 2
39.	d. Range		d. New SD would be decreased by 2
39.	Which measure of dispersion is based on all the observations?	47.	If Rx and Ry denote ranges of x and y
		Y	respectively where x and y are related by
		1	3x + 2y + 10 = 0,
	b. Standard deviation	-	what would be the relation between x and
	c. Quartile deviaition		y?
10	d. (a) and (b) but not (c)	\ 🔻	a. $Rx = Ry$ b. $2 Rx = 3 Ry$
40.	The appropriate measure of dispersions for	/	c. $3 Rx = 2 Ry$ d. $Rx = 2 Ry$
	open - end classification is	48.	If the range of x is 2, what would be the range
	a. Standard deviation		of -3x + 50 ?
	b. Mean deviation		a. 2 b. 6
	c. Quartile deviation		c6 d. 44
	d. All these measures	49.	The coefficient of mean deviaiton about
41.	The most commonly used measure of		mean for the first 9 natural numbers is
	dispersion is		a. 2/9 b. 80
	a. Range		c. 4/9 d. 50
	b. Standard deviation	50.	If the relation between x and y is $5y - 3x =$
	c. Coefficient of variation		10 and the mean deviaiton about mean for x
	d. Quartile deviation.		is 12, then the mean deviation of y about mean
42.	A shift of origin has no impact on		is
	a. Range b. Mean deviaiton		a. 7.20 b. 6.80
	c. Standard deviation		c. 20 d. 18.80
	d. All these and quartile deviation.		



51.	DEEP INS If the mean and SD of x are a and b		
51.	If the mean and SD of x are a and b	61. The right-hand tail of a frequency distribu	1.022.00
	respectively, then the SD of $\frac{x-a}{b}$ is	is found to the mirror image of the left-h	and
	b is b	tail. The distribution is	
	a1 b. 1	a. positively skewed	
	c. ab d. a/b.	b. negatively skewed	
52.	If the SD of x is 3, what us the variance of	c. asymmetric	
	(5-2x)?	d. symmetric	
	a. 36 b. 6		
	c. 1 d. 9	62. When coefficient of of skewness is zero	the
53.	If x and y are related by $2x + 3y + 4 = 0$ and	distribution is	
	SD of x is 6, then SD of y is	a. J-shaped	
	a. 22 b. 4	b. Ushaped	
	c. 5 d. 9	c. symmetrical	
54.	If x and y are related as $3x + 4y = 20$ and	d. L-shaped	
	the quartile deviaiton of x is 12, then the		
	quartile deviation of y is	63. When $\beta_2 < 3$ the distribution is	
	a. 16 b. 14	a. Leptokurtic	
	c. 10 d. 9	b. Platokurtic	
55.	If the SD of the 1st n natural numbers is 2,	c. Mesokurtic	
	then the value of n must be	d. None of these	
	a. 2 b. 7	u. Hone of these	
	c. 6 d. 5	64. In a negatively skewed distribution	
56.	The normal curve is	a. Mode > Median > Mean	
	a. Bell-shaped	b. Median > Mode > Mean	
	b. U-shaped	c. Mode < Median < Mean	
	c. J-shaped	d. None of these	
	d. Inverted J-shaped	65. Karl Pearson's coefficient of skewness	is
57.	For a negatively skewed distribution, the	Bowley's coefficient of skewness for	100421040
	correct inequality is	skewed distribution.	iny
	a. Mode < median	a. equal to	
	b. Mean < median	b. less than	
	c. mean < mode	c. greater than	
	d. None of the above	d. not related to	
58.	In case of positive skewed distribution, the	66. When coefficient of skewness is negative	ive
	extreme values lie in the	5.4 (25) (259). 	
	a. Left tail b. right tail	a. $Q_2 + Q_3 = 2Q_1$	
	c. Middle d. any where	b. $Q_3 + Q_1 < 2Q_2$	
59.	If $\overline{X} = 50$, mode = 48, $\sigma = 20$, the		
	coefficient of skewness shall be =	c. $Q_3 + Q_1 > 2Q_2$	
	a. 0.4 b. 0.1	d. $Q_3 + Q_2 < 2Q_1$	
	c. 0.3 d. None of these		
60		67. If $\beta_2 > 3$ the distribution is called -	
60.	If $\beta_2 = 3$ the distribution is called -	a. Mesokurtic	
	a. Mesokurtic	b. Leptokurtic	
	b. Leptokurtic	c. Pletykurtic	
	c. Pletykurtic	d. None of these	
	d. None of these		

S 9999001310

Ш





DEEP INSTITUTE

86. If each of X variable is divided by 5 and of Y by

10, then b'_{YX} by coded values is:

(a) same as b_{YX} (b) half of b_{YX}

(c) twice b_{yx} (d) none of the above

87. If each value of X is divided by 2 and of Y is

multiplies by 2, then b'_{yx} by coded value is:

(a) same as b_{yx} (b) twice of b_{yx}

(c) four times of b_{YX} (d) eight times of b_{YX}
88. If from each value of X and Y, constant 25 is subtracted and then each value is divided by 10,

the coded b'_{yx} is:

(a) same as b_{YX} (b) $2\frac{1}{2}$ times of b_{YX}

(c) 25 times of b_{YX} (d) 10 times of b_{YX}
89. If each value of X is multiplied by 10 and of Y by 20, b_{XY}, the regression coefficient by coded values is:

(a) same as b_{XY} (b) half of b_{XY}

(c) four time of b_{XY} (d) one-fourth b_{XY}

90. If from each value of Y, a constant value 15 is subtraced and then divided by 2, the regression coefficient b_{xy} through coded value is:

(a) half of b_{XY}

- (b) twice of b_{xy}
- (c) same as b_{yy}
- (d) none of the above

91. The random function $g(x) = E\{Y | X = x\}$ is

called the:

(a) regression curve of Y on X

(b) regression line of Y on X

- (c) regression function Y on X
- (d) none of the above

92. The function relation Y=E (Y/X= x) is called:(a) regression line of Y on X

(b) regression function of Y on X

(c) regression curve of the mean of Y on X $\,$

(d) all the above

93. If the correlation coefficient between the variables X and Y is p, the correlation coefficient between X^2 and Y^2 is:

(a) p (b) p^2 (c) 0 (d) 1

94. If the correlation between the two variables X and Y is negative, the regression cofficient of Y on X is:

(a) positive (b) negative

(c) not certain (d) none of the above 95. Given the two lines of regression as,

3X-4Y+8=0 and 4X-3Y=1, the means of X and Y are:

(a) $\overline{X} = 4$, $\overline{Y} = 5$ (b) $\overline{X} = 3$, $\overline{Y} = 4$

(c) $\overline{X} = \frac{4}{3}, \overline{Y} = \frac{5}{4}$ (d) none of the above

96. The formula for simple correlation coefficient between the variables X and Y with usual notations is:

(a)
$$\operatorname{cov}(X, Y) / \sqrt{V(X)V(Y)}$$

(b)
$$\mu_{XY} / \sqrt{\mu_{XX}} \mu$$

(c) $\sigma_{\chi\gamma} / \sigma_{\chi} \sigma_{\gamma}$

(d) all the above

97. The range of simple correlation coefficient is: (a) 0 to ∞ (b) - ∞ to ∞

(c) 0 to 1 (d) -1 to 1

98. If p = 1, the relation between the two variables X and Y is:

(a) Y is proportional to X

(b) Y is inversely proportional to X

(c) Y is equal to X (d) none of the above

99. If $p_{XY} = 0$, the variable X and Y are:

(a) linearly related (b) independent

(c) not linearly related (d) none of the above

- 100. If $p_{XY} = -1$, the relation between X and Y is of the type:
 - (a) when Y increases, X also increases,
 - (b) when Y decreases, X also decreases
 - (c) X is equal to -Y
 - (d) when Y increases, X proportionately decreases

coaching for DSSSB (STATISTICAL ASSISTANT)

Guided by - Sudhir Sir

🕓 9999001310



Address: 2513, Basement, Hudson Lane Opp. Laxmi Dairy, GTB Nagar New Delhi 110009

Email id: sudhirdse1@gmail.com, info@deepinstitute.co.in

Phone: 011-47511310

Mobile: 9560402898 (Neha Ma'am) 9999001310 (Sudhir Sir)

Visit: https://www.deepinstitute.co.in/