DEEP SCHOOL OF ECONOMICS

Assignment (STATISTICS - 1)

			101100-1)
1.	Measures of central tendency for a given		d. None of these
	set of observations measures	9.	Which of the following measure(s)
	a. The scatterness of the observations		possesses (Possess) mathematical
	b. The central location of the		properties?
	observations		a. AM b. GM
	c. Both (a) and (b)		c. HM d. All of these
	d. None of these.	10.	Which of the following measures of central
2.	For open-end classification, which of the		tendency is based on only fifty percent of
	following is the best measure of central		the central values?
	tendency?		a. Mean b. Median
	a. AM b. GM		c. Mode d. Both (a) and (b)
		11.	If there are 3 observation 15, 20, 25 then
3.	The presence of extreme observations does		the sum of deviation of the observation
	not affect		from their AM is
	a. AM b. Median		a. 0 b. 5
	c. Mode d. Any of these.		c5 d. None of these
4.	5	12.	What is the modal value for the numbers
	which of the following is median?	· 2·	5, 8, 6, 4, 10, 15, 18, 10?
	a. Any of the two middle-most value		a. 18 b. 10
	b. The simple average of these two		c. 14 d. None of these
	middle values	13.	If the AM and GM for two numbers are
	c. The weighted average of these two	15.	6.50 and 6 respectively then two numbers
	middle values		are
	d. Any of these		a. 6 and 7 b. 9 and 4
5.	Which one of the following is not uniquely		c. 10 and 3 d. 8 and 5
5.	defined?	14.	If the AM and HM for two numbers are 5
	a. Mean b. Median	1.4	and 3.2 respectively then the GM will be
	c. Mode d. All of these		a. 16.00 b. 4.10
6.	For a moderately skewed deistribution,		c. 4.05 d. 4.00
	-	15	What is the value of the fist quartile for
	a. Mean - Mode = 3 (Mean - Median)		observations 15, 18, 10, 20, 23, 28, 12, 16?
	b. Median - Mode = 3 (Mean - Median)		a. 17 b. 16
	c. Mean - Median = 3 (Mean - Mode)		c. 12.75 d. 12
	 d. Mean - Median = 3 (Median - Mode) 	16.	The third decile for the numbers 15, 10, 20,
7.	Which of the following results hold for a	10.	25, 18, 11, 9, 12, is
	set of distinct positive observations?		a. 13 b. 10.70
	a. $AM > GM > HM$		c. 11 d. 11.50
	b. $HM \ge GM \ge AM$	17.	If there are two groups containing 30 and
	c. $AM > GM > HM$	- / •	20 observations and having 50 and 60 as
	d. $GM > AM > HM$		artithmetic means, then the combined
8.	Quartiles are the values dividing a given		arithmetic mean is
	set of observations into		a. 55 b. 56
	a. Two equal parts		c. 54 d. 52
	b. Four equal parts	18.	If there are two groups with 75 and 65 as
	c. Five equal part	-0.	harmonic means and containing 15 and 13
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observation then the combined HM is given trial and error d. The middle value of an ordered series is 27. by 70.36 65 b. called : a. 70 2nd quartile d. 71 c. a. 19. What is the HM of . 1, 1/2, 1/3,..... 1/n? b. 5th decile b. 2nc. 50th percentile a. п all the above d. $\frac{2}{(n+1)}$ $\frac{n(n+1)}{2}$ d. 28. For percentiles, the total number of c. partition values are 20. If a variable assumes the values 1, 2, 3.....5 10 59 a. b. with frequencies as 1, 2, 3.....5, then what 100 d. 99 c. is the AM? 29. The first quartile divides a frequency destribution in the ration 11 b. 5 a. 4:11:43 a. b. 3:1 1:3d. c. 4 d. 4.50c. Median can be located graphically with the 30. 21. Two variables x and y are given by help of y = 2x - 3. If the median of x is 20, what is Histogram a. the median of y? b. ogives 20 b. 40 a. bar diagram c. 37 d. 35 c. d. scatter diagram If x and y are related by x - y - 10 = 0 and 22. Sixth deciles is same as 31. mode of x is known to be 23, then the mode median a. of y is 50the percentile b. 20 b. 13 a. 60th percentile c. 3 d. 23 c. d. first quartile 23. If x and y are related by x - y - 10 = 0 and 32. What percentage of values lies between 5th mean of x is known to be 23, then the mean and 25th percentiles? of y is a. 5% b. 20% 20 b. 13 a. 30% d. 75% c. 3 23 d. c. Which of the following statements is 33. 24. If the AM and GM for 10 observations are correct? both 15, then the value of HM is Two distributions may have identical a. Less than 15 a. measures of central tendency and More than 15 b. dispersion. 15 c. Two distributions may have the b. Can not be determined. d. identical measures of central tendency 25. In a symmetric distribution but different measures of dispersion. a. mean = median = modeTwo distributions may have the c. b. mean > median < modedifferent measures of central tendency mean > median > modeC. but identical measures of dispersion. mean < medain < mode d. All the statments (a), (b) and (c). d. If modal value is not clear in a distribution, 26. 34. Dispersion measures it can be ascertained by the method of The scatternmess of a set of a. grouping a. observations guessing b. The concentration of a set of b. summarizing c. observations Ph. 9971954342 www.dsecoaching.com

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	c. Both (a) and (b)		a. Range
	d. Neither (a) and (b).		b. Mean deviaiton
35.	When it comes to comparing two or more		c. Standard deviation
	distributions we consider		d. All these and quartile deviation.
		43.	The standard deviation of, 10, 16, 10, 16,
	b. Relative measures of dispersion	10.	10, 10, 16, 16 is
	c. Both (a) and (b)		a. 4 b. 6
	d. Either (a) or (b).		c. 3 d. 0
36.	Which measure of dispersion is the	<u>4</u> 4	For any two numbers SD is always
50.	quickest to compute?		a. Twice the range
	a. Standard deviaiton		b. Half of the range
	b. Quartile deviation		c. Square of the range
	c. Mean deviation		d. None of these.
		45.	If all the observations are increased by 10,
37.	Which measures of dispersions is not	ч у.	then
57.	affected by the presence of extreme		a. SD would be increased by 10
	observations?		
			b. Mean deviation would be increased by 10
	a. Rangeb. Mean deviaiton		c. Quartile deviation would be increased
	~		
			by 10
20	d. Quartile deviaiton	AE	d. All these three remain unchanged.
38.	Which measure of dispersion is based on the absolute deviaitons only?	40.	If all the observations are multiplied by 2, then
	a. Standard deviationb. Mean deviation		a. New SD would be also multiplied by 2
	c. Quartile deviation		b. New SD would be half of the previous
	d. Range		SD would be han of the previous
39.	Which measure of dispersion is based on		c. New SD would be increased by 2
59.	all the observations?		d. New SD would be decreased by 2
	a. Mean deviaiton	47.	If Rx and Ry denote ranges of x and y
	b. Standard deviation	+/.	respectively where x and y are related by
			Tespectively where x and y are related by $3x + 2y + 10 = 0$,
	c. Quartile deviaitiond. (a) and (b) but not (c)		5x + 2y + 10 = 0, what would be the relation between x and
40.	The appropriate measure of dispersions for		
40.			y?
	open - end classification is a. Standard deviation		a. $Rx = Ry$ b. $2 Rx = 3 Ry$
			5
			c. $3 Rx = 2 Ry$
	c. Quartile deviation	10	d. $Rx = 2 Ry$ If the range of x is 2, what would be the
41		48.	If the range of x is 2, what would be the range of $3x + 50^{\circ}$?
41.	The most commonly used measure of dispersion is		range of $-3x + 50$?
	dispersion is		a. 2 b. 6
	a. Range	40	c6 d. 44 The coefficient of mean devisiton shout
	b. Standard deviation	49.	The coefficient of mean deviation about
	c. Coefficient of variation		mean for the first 9 natural numbers is $2/0$
10	d. Quartile deviation.		a. 2/9 b. 80
42.	A shift of origin has no impact on		c. 4/9 d. 50

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50.	If the relation between x and y is $5y - 3x =$		c. 0.3 d. None of these
	10 and the mean deviaiton about mean for	60.	If $\beta_2 = 3$ the distribution is called -
	x is 12, then the mean deviation of y about		a. Mesokurtic
	mean is		b. Leptokurtic
	a. 7.20 b. 6.80		c. Pletykurtic
	c. 20 d. 18.80		d. None of these
51.	If the mean and SD of x are a and b	61.	The right-hand tail of a frequency
	respectively, then the SD of $\frac{x - a}{b}$ is		distribution is found to the mirror image of the left-hand 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	62.	When coefficient of of skewness is zero
	c. 1 d. 9		the distribution is
53.	If x and y are related by $2x + 3y + 4 = 0$ and		a. J-shaped
	SD of x is 6, then SD of y is		b. Ushaped
	a. 22 b. 4		c. symmetrical
	c. 5 d. 9		d. L-shaped
54.	If x and y are related as $3x + 4y = 20$ and	63.	When $\beta_2 < 3$ the distribution is
	the quartile deviation of x is 12, then the		a. Leptokurtic
	quartile deviation of <i>y</i> is		b. Platokurtic
	a. 16 b. 14		c. Mesokurtic
	c. 10 d. 9		d. None of these
55.	If the SD of the 1st n natural numbers is 2,	64.	In a negatively skewed distribution
	then the value of n must be		a. Mode > Median > Mean
	a. 2 b. 7		b. Median > Mode > Mean
	c. 6 d. 5		c. Mode < Median < Mean
56.	The normal curve is		d. None of these
	a. Bell-shaped	65.	Karl Pearson's coefficient of skewness is
	b. U-shaped		Bowley's coefficient of skewness for any
	c. J-shaped		skewed distribution.
	d. Inverted J-shaped		a. equal to
57.	For a negatively skewed distribution, the		b. less than
	correct inequality is		c. greater than
	a. Mode < median		d. not related to
	b. Mean < median	66.	When coefficient of skewness is negative
	c. mean < moded. None of the above		a. $Q_2 + Q_3 = 2Q_1$
58.	In case of positive skewed distribution, the		
50.	extreme values lie in the		b. $Q_3 + Q_1 < 2Q_2$
	a. Left tail b. right tail		c. $Q_3 + Q_1 > 2Q_2$
	c. Middle d. any where		d. $Q_3 + Q_2 < 2Q_1$
59.	If $\overline{\chi}$ = 50, mode = 48, σ = 20, the	FOR	a. $\mathcal{Q}_3 + \mathcal{Q}_2 > 2\mathcal{Q}_1$ R COMPLETE SOLUTION VISIT-
	coefficient of skewness shall be =		
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