001. x 5 10 15	<u> </u>	A
Find the Arithmetic mean of the data		
A 10.25	В 9	
C 10	D 15	
002. Find the Median of the data 160, 180, 200, 280, 300, 320, 400		C
A 140	B 300	
C 280	D 180	D
003. Find the Mean of 3, 5, 6, 8,13 A 6	В 7	В
C 5	D 8	
004. The sum of squared deviations of a set of n values from their mean		A
A Zero	B Maximum	
C Minimum	D Mean	
005. If a, b are constants then, $Var(a + b X)$ is		В
A VarA + bVar(X)	$B_b^2 Var(X)$	
C VarA - bVar(X)	D b Var(X)	_
006. If X and Y are independent then SD(X-Y) is	D CD (V) + CD (V)	D
A SD (X) SD (Y) $C \sqrt{SD (X) + SD (Y)}$	$B SD (X) + SD (Y)$ $D \sqrt{Y - QQ} + Y - QQ$	
•	$D\sqrt{Var(X) + Var(Y)}$	~
007. Var $(2X+3)$ is	D & Var(V)	C
A 2 Var(X) + 3 $C 4 Var(X)$	B 5 Var(X) D 4 Var(X)+3	
008. Sum of deviations will be zero if it is taken from	$D + \operatorname{var}(X) + S$	C
A Mode	B Median	
C Mean	D Standard deviation	
009. The Sum of Squared deviation is least from		C
A Mode	B Median	
C Mean	D Standard deviation	
010. The sum of values divided by their number is called A Median	B Harmonic mean	C
C Mean	D Mode	
011. The Coefficient of Skewness is always zero for Distribution		D
A Asymmetrical	B Negative Skew	
C Positive Skew	D Symmetrical	
012. If the right tail is longer than left tail then the distribution is called		В
A Negatively Skewed	B Positively Skewed	
C Symmetrical	D Unimodal	
013. If the left tail is longer than right tail then the distribution is called A Negatively Skewed	B Positively Skewed	A
C Symmetrical	D Unimodal	
014. The degree of peakedness is called		D
A Dispersion	B Skewness	
C Symmetry	D Kurtosis	
015. The combined arithmetic mean is calculated as	- 	C
$A \frac{\overline{X_1} + \overline{X_2}}{n_1 + n_2}$	$B \frac{\overline{X_1} + \overline{X_2}}{2}$	
$C \frac{n_1 \overline{X_1} + n_2 \overline{X_2}}{n_1 + n_2}$	$ D \frac{n_1 X_1 + n_2 X_2}{n_1 + n_2} $	
	$n_1 + n_2$	
016. The Average of first n natural numbers is	p n-1	A
$A\frac{n+1}{2}$	$B \frac{n-1}{2}$	
$C \frac{n}{2}$	D None of these	
017. The mean of a constant m is		В
A 0	В т	
$C\frac{m}{n}$	D Does not exists	
018. The Arithmetic mean of two positive number x and y is		В
$A\sqrt{xy}$	$B \frac{x+y}{2}$	
$C \frac{2}{\frac{1}{x} + \frac{1}{y}}$	$D \frac{x-y}{2}$	
019. The geometric mean of two positive number x and y is		A
$A\sqrt{xy}$	$B \frac{x+y}{2}$	
•	$D = \frac{x-y}{2}$	
$C_{\frac{2}{x+\frac{1}{y}}}$	_ 2	
020. The Harmonic mean of two positive number x and y is		C

$A\sqrt{xy}$	$B\frac{x+y}{2}$			
$C \frac{2}{\frac{x}{x} + \frac{1}{x}} $	$D \frac{x-y}{x-y}$			
021. The mean of 10 numbers is 9, then the sum of all those number is A 9	В 0.9			
C 10	D 90			
022. In a distribution of 10, 20, 30, 40, 50, $\bar{x} = 30$, the sum of deviations	s from Dis			
A 60	B 30			
C 20 023.	D 0			
1 If the median of $\frac{a}{3}$, $\frac{a}{2}$, $\frac{a}{4}$, $\frac{2a}{5}$, $\frac{a}{6}$ is 12 then find the value of a (>0)	A A			
A 36	B 48			
C 24 024. In a week the prices of a bag of rice were 350, 280, 340, 290, 320, 3	D 12 10, 300. The range is			
A 60	B 70			
C 90	D 100			
025. The Geometric mean of -2, 4, 3, 6, 0 will be	I			
A 3 C 2.2	B 0 D does not exists			
026. The most repeated value in a data set is called	I does not exists			
A Median	B Mean			
C Harmonic mean	D Mode			
027. In a frequency distribution the last cumulative frequency is 500. Q3 A 275 th item	must lie in B 375 th item			
C 150 th item	D 175 th item			
028. The arithmetic mean of the observations 10, 8, 5, a, b is 6 and their				
A 6	B 12			
C 4	D 3			
029. Which one of the following is not a measure of dispersion?				
A Mean Deviation C Quartile	B Range D Standard Deviation			
030. Find the variance of the data 2, 4, 6, 8 and 10 is	D Standard Deviation			
A 10	B 6			
C 4	D 8			
031. Which of the following are measures of central tendency	I D.M. For Made Mark			
A Percentile, Quartile, Median C Percentile, Median, Mode	B Median, Mode, Mean D Percentile, Quartile, Mode			
032. Which of the following can be used as measures of dispersions	I recentific, Quartific, Mode			
A Range	B Percentiles			
C Standard deviation	D All the above			
033. The Mean deviation about Arithmetic mean of the numbers 3, 4, 5, 4 A 25	b, / is B 5			
C 1.2	D 0			
034. A contractor employs 20 male, 15 female and 5 children in his factor	ry. Male wages are Rs. 10 per day, female Rs. 8 per day, and children Rs. 3 per I			
day. The mean of wages per day is A 3.86	B 9.21			
C 10.63	D 8.37			
035. If $\bar{x} = 4$ and the distribution is 2, 3, 4, 5, 6 then the sum of squared defined as $\bar{x} = 4$ and	eviations from the Dis			
A 10	B 8			
C 6	D 0			
036. The variance is the of the Standard deviation	n Cala			
A Square root C Square	B Cube D Cube root			
037. The middle value of an ordered series is called	I cute lost			
A 2 nd quartile	B 5 th decile			
C 50 th percentile	D All the above			
038. In a frequency distribution, Range is the difference between and				
A Upper limit of the highest class, lower limit the lowest class	B lower limit of the highest class, upper limit of the lowest class			
C A or B 039. The first quartile divides a frequency distribution in the ratio	D None of the above			
A 4:1	B 1:3			
C 1:4	D 3:1			
040. Find the quartile deviation of 6, 12, 14, 16, 18, 20 and 24	I D. 4			
A 12 C 20	B 4 D 16			
C 20	D 10			

4/25/22, 11:59 AM	R2022051	
041. Find Q_1 and Q_2 from the given data 1, 2, 3, 4, 5, 6, 7		C
A 2, 6	B 4, 6	
C 2, 4	D 3, 5	
042. Find the value of mode if the median, mean of the data given as 2	20, 22.5 respectively	A
A 15	B 20	
C 22.5	D 10	
043. If the standard deviation of a population is 9, the population varia	ance is	В
A 9	B 81	
C 3	D 12	~
044. Find the mode of the data -1, 2, 3, 8, 7, 2, 9, 6, 3.	D 2	C
A 7	B 2	
C 2, 3	D 3	D
045. If mode = a median + b mean then a, b? A 2, -3	В 2, 3	D
C 3, 2	D 3, -2	
046. The measure of dispersion is	5,-2	D
A Mean deviation	B Standard deviation	ь
C Quartile deviation	D All of these	
047. The limits for coefficient of correlation are	D Till of these	D
A Has no limit	B less than 1	2
C More than 1	D (-1, 1)	
048. Which of the following are types of graph which include bars?	- (-, -)	C
A Bar graph	B Histogram	
C A & B	D Line graph	
	d 2 respectively. If every observation is multiplied by 2, then the mean and	D
variance of the data.		
A 80 and 40	B 8 and 4	
C 8 and 20	D 8 and 8	
050. The degree to which numerical data tend to spread about value is		A
A Variance	B Mean	
C Median	D Mode	
051. Which of the following statements is not correct for a bar graph		В
A Distance between two consecutive bars is the same	B All bars have different thickness	
C The bars can touch other	D The thickness has no significance	
052. The normal equations to fit the straight line $y = ax + b$ for n data p	points is given by	C
$\sum_{i=1}^{n} y_i = n\alpha + b \sum_{i=1}^{n} x_i y_i = a \sum_{i=1}^{n} x_i + b \sum_{i=1}^{n} x_i^2$	$\sum_{i=1}^{n} x_{i} = na + b \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_{i} y_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2}$	
а аа аа	H H H H H	
$\sum_{i=1}^{n} y_{i} = nb + a \sum_{i=1}^{n} x_{i}, \sum_{i=1}^{n} x_{i} y_{i} = b \sum_{i=1}^{n} x_{i} + a \sum_{i=1}^{n} x_{i}^{2}$	$\sum_{i=1}^{n} x_{i} = nb + a \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_{i} y_{i} = b \sum_{i=1}^{n} y_{i} + a \sum_{i=1}^{n} x_{i}^{2}$	
053. The normal equations to fit the straight line $x = ay + b$ for n data p	points is given by	D
A $\sum_{i=1}^{n} y_{i} = na + b \sum_{i=1}^{n} x_{i} + \sum_{i=1}^{n} x_{i} = a \sum_{i=1}^{n} x_{i} + b \sum_{i=1}^{n} x_{i}^{2}$	$\sum_{i=1}^{n} x_{i} = na + b \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_{i} y_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2}$	
_y _i - nu τυ _ x _i , _ x _i y _i - u _ x _i τυ _ x _i μ μ μ μ μ	$\sum_{i} -mi + 0 \sum_{i} y_{i}, \sum_{i} y_{i} - u \sum_{j} y_{i} + 0 \sum_{j} y_{i}$	
$\sum_{i=1}^{n} y_{i} = nb + a \sum_{i=1}^{n} x_{i}, \sum_{i=1}^{n} x_{i} y_{i} = b \sum_{i=1}^{n} x_{i} + a \sum_{i=1}^{n} x_{i}^{2}$		
$\sum_{i} y_{i} = nb + a \sum_{i} x_{i}, \sum_{i} x_{i} y_{i} = b \sum_{i} x_{i} + a \sum_{i} x_{i}$	$\sum_{i=1}^{n} x_i = nb + a\sum_{i=1}^{n} y_i, \sum_{i=1}^{n} x_i y_i = b\sum_{i=1}^{n} y_i + a\sum_{i=1}^{n} y_i^2$	
054. The normal equations to fit the straight line $x = a+by$ for n data p	points is given by	В
$\sum_{i=1}^{A} x_{i} = na + b \sum_{i=1}^{n} x_{i}, \sum_{i=1}^{n} x_{i} y_{i} = a \sum_{i=1}^{n} x_{i} + b \sum_{i=1}^{n} x_{i}^{2}$	$\sum_{i=1}^{n} x_{i} = na + b \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_{i} y_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2}$	
$\sum_{i=1}^{n} y_{i} = nb + a \sum_{i=1}^{n} x_{i}, \sum_{i=1}^{n} x_{i}y_{i} = b \sum_{i=1}^{n} x_{i} + a \sum_{i=1}^{n} x_{i}^{2}$	$\sum_{i=1}^{n} x_{i} = nb + a \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_{i}y_{i} = b \sum_{i=1}^{n} y_{i} + a \sum_{i=1}^{n} x_{i}^{2}$	
055. The relationship between two variables is	н нн н	A
A correlation	B regression	A
C ANOVA	D sampletests	
056. The method least squares work on the principle	D samplecests	D
A maximization of residual errors	B minimization of residual errors	D
C maximization of squares of errors	D minimization of squares of errors	
057. The normal equations to fit the straight line $y = a + bx$ for n data p		A
$A \sum_{i=1}^{n} y_{i} = na + b \sum_{i=1}^{n} x_{i}, \sum_{i=1}^{n} x_{i}y_{i} = a \sum_{i=1}^{n} x_{i} + b \sum_{i=1}^{n} x_{i}^{2}$	$\sum_{i=1}^{n} x_{i} = na + b \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_{i} y_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2}$	
$\sum_{i=1}^{n} y_{i} = nb + a \sum_{i=1}^{n} x_{i}, \sum_{i=1}^{n} x_{i}y_{i} = b \sum_{i=1}^{n} x_{i} + a \sum_{i=1}^{n} x_{i}^{2}$	$\sum_{i=1}^{n} x_{i} = nb + a \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_{i} y_{i} = b \sum_{i=1}^{n} y_{i} + a \sum_{i=1}^{n} x_{i}^{2}$	
	а аа а а	
058. Which of the following is a linear curve	B 2	A
A y = a + bx	$B_{y=a+bx^2}$	
$C_{x=a+by+cy^2}$	$D_{X=a+by^2}$	
059. Which of the following is a power function		D

A y= a+bxB $y=a+bx^2$ $C_{v=ae^{bx}}$ $D_{y=ax}b$

060. The normal equations to fit the straight line $x = a + by + cy^2$ for n data points is given by

 $B \sum_{i=1}^{n} x_{i} = na + b \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_{i} y_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2}$ A $\sum_{i=1}^{n} x_{i} y_{i} = nb + a \sum_{i=1}^{n} y_{i} + \sum_{i=1}^{n} y_{i}^{2} x_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2}$ $\sum_{i=1}^{n} y_i = na + b \sum_{i=1}^{n} x_i + c \sum_{i=1}^{n} x_i^2, \sum_{i=1}^{n} x_i y_i = a \sum_{i=1}^{n} x_i + b \sum_{i=1}^{n} x_i^2 + c \sum_{i=1}^{n} x_i^3, \qquad D \sum_{i=1}^{n} x_i = na + b \sum_{i=1}^{n} y_i + c \sum_{i=1}^{n} y_i^2, \sum_{i=1}^{n} x_i y_i = a \sum_{i=1}^{n} y_i + b \sum_{i=1}^{n} y_i^2 + c \sum_{i=1}^{n} y_i^3, \sum_{i=1}^{n} x_i y_i = a \sum_{i=1}^{n} y_i + b \sum_{i=1}^{n} y_i^2 + c \sum_{i=1}^{n} y_i^3, \sum_{i=1}^{n} x_i y_i = a \sum_{i=1}^{n} y_i + b \sum_{i=1}^{n} y_i^3 + c \sum_{i=1}$ $\sum_{i=1}^{n} x_{i} y_{i}^{2} = a \sum_{i=1}^{n} x_{i}^{2} + b \sum_{i=1}^{n} x_{i}^{3} + c \sum_{i=1}^{n} x_{i}^{4}$ $\sum_{i=1}^{n} y_i x_i^2 = a \sum_{i=1}^{n} y_i^2 + b \sum_{i=1}^{n} y_i^3 + c \sum_{i=1}^{n} y_i^4$

ight line y = a + b/x for n data points is given

 $\sum_{i=1}^{n} x_{i} = na + b \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_{i} y_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2}$ $\sum_{i=1}^{n} x_{i} y_{i} = nb + a \sum_{i=1}^{n} x_{i} \sum_{i=1}^{n} x_{i}^{2} y_{i} = b \sum_{i=1}^{n} x_{i} + a \sum_{i=1}^{n} x_{i}^{2}$ $\sum_{i=1}^{n} y_{i} = nb + a \sum_{i=1}^{n} x_{i}, \sum_{i=1}^{n} x_{i}y_{i} = b \sum_{i=1}^{n} x_{i} + a \sum_{i=1}^{n} x_{i}^{2}$ D $\sum_{i=1}^{n} x_i = nb + a \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_i y_i = b \sum_{i=1}^{n} y_i + a \sum_{i=1}^{n} x_i^2 y_i$

+ b/y for n data points is given

 $B \sum_{i=1}^{n} x_{i} = na + b \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_{i}y_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2}$ $A \sum_{i=1}^{n} x_{i} y_{i} = nb + a \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} y_{i}^{2} x_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2}$ $\sum_{i=1}^{n} x_{i} = nb + a \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_{i} y_{i} = b \sum_{i=1}^{n} y_{i} + a \sum_{i=1}^{n} x_{i}^{2} y$ $\sum_{i=1}^{n} y_{i} = nb + a \sum_{i=1}^{n} x_{i}, \sum_{i=1}^{n} x_{i} y_{i} = b \sum_{i=1}^{n} x_{i} + a \sum_{i=1}^{n} x_{i}^{2}$

C

C

C

C

 $B \sum_{i=1}^{n} x_{i} = na + b \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_{i}y_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2}$ $A \sum_{i=1}^{n} x_{i} y_{i} = nb + a \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} y_{i}^{2} x_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2}$ $\sum_{i=1}^{n} y_{i} = na + b \sum_{i=1}^{n} x_{i} + c \sum_{i=1}^{n} x_{i}^{2}, \sum_{i=1}^{n} x_{i} y_{i} = a \sum_{i=1}^{n} x_{i} + b \sum_{i=1}^{n} x_{i}^{2} + c \sum_{i=1}^{n} x_{i}^{3}, \qquad D \sum_{i=1}^{n} x_{i} = na + b \sum_{i=1}^{n} y_{i} + c \sum_{i=1}^{n} y_{i}^{2}, \sum_{i=1}^{n} x_{i} y_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2} + c \sum_{i=1}^{n} y_{i}^{2}, \sum_{i=1}^{n} x_{i} y_{i} = a \sum_{i=1}^{n} x_{i} + c \sum_{i=1}^{n} x_{i}^{2} + c \sum_{i=1}^{n$ $\sum_{i=1}^{n} x_{i} y_{i}^{2} = a \sum_{i=1}^{n} x_{i}^{2} + b \sum_{i=1}^{n} x_{i}^{3} + c \sum_{i=1}^{n} x_{i}^{4}$ $\sum_{i=1}^{n} y_i x_i^2 = a \sum_{i=1}^{n} y_i^2 + b \sum_{i=1}^{n} y_i^3 + c \sum_{i=1}^{n} y_i^4$

 $\frac{A}{\sum_{i=1}^{n} \log_{10} y_{i}} = n \log_{10} a + b \sum_{i=1}^{n} x_{i} \sum_{i=1}^{n} x_{i} \log_{10} y_{i} = \log_{10} a \sum_{i=1}^{n} x_{i}^{2} + b \sum_{i=1}^{n} x_{i}^{2}$ $= \sum_{i=1}^{n} \log_{10} y_{i} = n \log_{10} a + \log_{10} b \sum_{i=1}^{n} x_{i} \sum_{i=1}^{n} x_{i} \log_{10} y_{i} = \log_{10} a \sum_{i=1}^{n} x_{i} + \log_{10} b \sum_{i=1}^{n} x_{i}^{2}$ $= \sum_{i=1}^{n} \log_{10} y_{i} = n \log_{10} a + \log_{10} b \sum_{i=1}^{n} x_{i} + \log_{10} b \sum_{i=1}^{n} x_{i} + \log_{10} b \sum_{i=1}^{n} x_{i}^{2} + \log_{10$ $\sum_{i=1}^{n} \log_{10} y_{i} = n \log_{10} a + b \sum_{i=1}^{n} x_{i} \sum_{i=1}^{n} x_{i} \log_{10} y_{i} = \log_{10} a \sum_{i=1}^{n} x_{i} + b \sum_{i=1}^{n} x_{i}^{2} \sum_{i=1}^{n} x_{i} y_{i} = nb + a \sum_{i=1}^{n} x_{i}^{2} y_{i} = b \sum_{i=1}^{n} x_{i} + a \sum_{i=1}^{n} x_{$

065. The normal equations to fit the straight line $y = ax^2 + bx + c$ for n data points

 $B \sum_{i=1}^{n} x_{i} = na + b \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} x_{i} y_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2}$ $A \sum_{i=1}^{n} x_{i} y_{i} = nb + a \sum_{i=1}^{n} y_{i}, \sum_{i=1}^{n} y_{i}^{2} x_{i} = a \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2}$ $\sum_{i=1}^{n} y_{i} = nc + b \sum_{i=1}^{n} x_{i} + a \sum_{i=1}^{n} x_{i}^{2}, \sum_{i=1}^{n} x_{i} y_{i} = c \sum_{i=1}^{n} x_{i} + b \sum_{i=1}^{n} x_{i}^{2} + a \sum_{i=1}^{n} x_{i}^{3}, \qquad \sum_{i=1}^{n} x_{i} = nc + b \sum_{i=1}^{n} y_{i} + a \sum_{i=1}^{n} y_{i}^{2}, \sum_{i=1}^{n} x_{i} y_{i} = c \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2} + a \sum_{i=1}^{n} y_{i}^{3}, \sum_{i=1}^{n} x_{i} y_{i} = c \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2} + a \sum_{i=1}^{n} y_{i}^{2}, \sum_{i=1}^{n} x_{i} y_{i} = c \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2} + a \sum_{i=1}^{n} y_{i}^{2}, \sum_{i=1}^{n} x_{i} y_{i} = c \sum_{i=1}^{n} y_{i} + b \sum_{i=1}^{n} y_{i}^{2} + a \sum_{i=1}^{n} y_{i}^{2}$ $\sum_{i=1}^{n} y_{i} x_{i}^{2} = c \sum_{i=1}^{n} y_{i}^{2} + b \sum_{i=1}^{n} y_{i}^{3} + a \sum_{i=1}^{n} y_{i}^{4}$ $\sum_{i=1}^{n} x_i y_i^2 = c \sum_{i=1}^{n} x_i^2 + b \sum_{i=1}^{n} x_i^3 + a \sum_{i=1}^{n} x_i^4$

 $\frac{\mathbf{A}}{\sum_{i=1}^n \log_{\mathbf{B}} y_i = n \log_{\mathbf{B}} a + b \sum_{i=1}^n x_i \log_{\mathbf{B}} y_i = \log_{\mathbf{B}} a \sum_{i=1}^n x_i \log_{\mathbf{B}} y_i = \log_{\mathbf{B}} a \sum_{i=1}^n \log_{\mathbf{B}} y_i = n \log_{\mathbf{B}} a + \log_{\mathbf{B}} b \sum_{i=1}^n x_i \log_{\mathbf{B}} y_i = \log_{\mathbf{B}} a \sum_{i=1}^n x_i \log_{\mathbf{B}}$ $\sum_{i=1}^{n} \log_{10} y_{i} = n \log_{10} a + b \sum_{i=1}^{n} x_{i} \sum_{i=1}^{n} x_{i} \log_{10} y_{i} = \log_{10} a \sum_{i=1}^{n} x_{i} + b \sum_{i=1}^{n} x_{i}^{2} \sum_{i=1}^{n} x_{i} y_{i} = nb + a \sum_{i=1}^{n} x_{i} \sum_{i=1}^{n} x_{i}^{2} y_{i} = b \sum_{i=1}^{n} x_{i} + a \sum_{i=1}^{n} x_{i}^{2} \sum_{i=1}^{n} x_{i} \sum_{i=1}^{n} x_{i}^{2} y_{i} = b \sum_{i=1}^{n} x_{i} \sum_{i=1}^{n} x_{i}^{2} y_{i} = b \sum_{i=1}^{n} x_{i} \sum_{i=1}^{n} x_{i}^{2} y_{i} = b \sum_{i=1}^{n} x_{i}^{2}$

067. Which of the following is a exponential function

A y = a + bx $B_{y=a+bx^2}$ $C_{v=ae^{bx}}$ $D_{y=ax}b$

068. Which of the following is a exponential function

B $y = a + bx^2$ A y = a + bx $C_{y=ab^{x}}$

069. The normal equations to fit the curve $y = ae^{bx}$ are

 $\frac{A}{\sum_{i=1}^{n} \log_{i} y_{i} = n \log_{i} a + b \sum_{i=1}^{n} x_{i} \sum_{i=1}^{n} x_{i} \log_{i} y_{i} = \log_{i} a \sum_{i=1}^{n} x_{i} + b \sum_{i=1}^{n} x_{i}^{2} \qquad \frac{B}{\sum_{i=1}^{n} \log_{10} y_{i} = n \log_{10} a + \log_{10} b \sum_{i=1}^{n} x_{i} \log_{10} y_{i} = \log_{10} a \sum_{i=1}^{n} x_{i} \log_{10} y_{i} = \log_{10} a \sum_{i=1}^{n} x_{i} \log_{10} y_{i} = n \log_{10}$ $\sum_{i=1}^{n} \log_{10} y_i = n \log_{10} a + b \sum_{i=1}^{n} x_{i} \sum_{i=1}^{n} x_{i} \log_{10} y_i = \log_{10} a \sum_{i=1}^{n} x_{i} + b \sum_{i=1}^{n} x_{i}^{2} \sum_{i=1}^{n} x_{i} y_i = nb + a \sum_{i=1}^{n} x_{i}^{2} y_i = b \sum_{i=1}^{n} x_{i} + a \sum_{i=1}^{n} x_{$

070. The first normal equation to fit the curve xy = a + bx is

C $A \sum_{i=1}^{n} x_i y_i = nb + a \sum_{i=1}^{n} y_i$ $B \sum_{i=1}^{n} x_i y_i = na + b \sum_{i=1}^{n} y_i$ $\sum_{i=1}^{n} x_{i} y_{i} = na + b \sum_{i=1}^{n} x_{i}$ $D \sum_{i=1}^{n} x_i = nb + a \sum_{i=1}^{n} y_i$ **071.** The second normal equations to fit the straight line yx = ay + b for n data points is given by В

PRODUCES 1

A
$$\sum_{i} x_i^2 x_i = a_{i}^2 y_i + b \sum_{i} x_i^2 y_i^2$$

C $\sum_{i} x_i y_i = b \sum_{i} x_i + a_{i}^2 \sum_{i} x_i + a_{i}^2 \sum_{i} x_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i + a_{i}^2 \sum_{i} x_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2 y_i^2$

D $\sum_{i} x_i y_i = b \sum_{i} x_i^2 y_i^2 y_i^$

B Linear

D non linear

file:///C:/PHD/JNTUK ONLINE/ONLINE EXAMS/jntuonlinecrack/banksdecrypted/R2022051/R2022051.html

084. If the relation between two variables moving in opposite direction, then the correlation is said to be

083. The study of two variables excluding some other variables, then the correlation is said to be

A Negative

C Partial

5/8

A

C

	A Negative	B Linear
	C positive	D non linear
	The study of characteristics of a single variable is called	D. Divorioto analysis
	A univariate analysis C Analysis of variance	B Bivariate analysis D sample testing
	The statistical analysis which measures the degree or extent to which	
	A univariate analysis	B Bivariate analysis
	C Analysis of variance	D correlation
	If the relation between two variables moving in same direction, then	
	A Negative	B Linear
	C positive	D nonlinear
	If $COV(x,y) = 0$ then the following is true	D Hommicus
	A xand y are correlative	B xand y are un correlatative
	C xand y are dependent	D xand y are independent
	The correlation coefficient is	
	A independent of scale and origin	B independent of scale only
	C independent of origin only	D independent of neither scale nor origin
	The rank correlation is given by	
	A $\sum x_{ij}$	B $6\sum d^2$
	$A \rho = \frac{\sum xy}{\sqrt{\sum x^2 \sum y^2}}$	$\rho = 1 - \frac{6\sum d^2}{n(n^2 - 1)}$
	V 2 2-	
	$ \frac{C}{\rho} = \frac{\sum xy}{\sqrt{\sum x^2}} $	D $o = \frac{\sum xy}{\sum xy}$
	$\sqrt{\sum x^2}$	D $\rho = \frac{\sum xy}{\sqrt{\sum y^2}}$
091.	The maximum value of rank correlation is	,—
		B -1
	C 0	D 2
092.	The limits of correlation coefficient is	1
	A (0,1)	B (-1,0)
	C (1,2)	D (-1,1)
093.	The coefficient of correlation is given by	
	A Σxy	$B r = 1 - \frac{6\sum d^2}{n(n^2 - 1)}$
	$A r = \frac{\sum xy}{\sqrt{\sum x^2 \sum y^2}}$	$r = 1 - \frac{1}{n(n^2 - 1)}$
		D 5 2
	$r = \frac{\sum xy}{\sum x^2}$	$r = \frac{\sum xy}{\sqrt{\sum y^2}}$
	$\sqrt{\sum x^2}$	$\sqrt{\sum y^2}$
094.	The regression coefficient x on y is given by	
	$A_r \underline{\sigma_r}$	В _{г} <u>σ</u> ,
	$r \overline{\sigma_{y}}$	$r \frac{\dot{\sigma}}{\sigma_r}$
	$r \frac{\sigma_{\mathbf{v}}}{\sigma_{\mathbf{v}}}$	$^{\mathrm{D}}r\frac{\sigma_{x}}{\sigma_{x}}$
	-	- - - -
	The regression coefficient y on x is given by $\Delta = \pi$	R or
	$\frac{A}{r} \frac{\sigma_x}{\sigma_y}$	$^{\mathrm{B}}$ $_{r}\frac{\sigma_{_{\mathbf{y}}}}{\sigma_{_{\mathbf{x}}}}$
	o ,	
	$r \frac{\sigma_{x}}{\sigma_{y}}$	${}^{\mathrm{D}}r\frac{\sigma_{x}}{\sigma_{\mathbf{v}}}$
	$\sigma_{\mathbf{y}}$	$\sigma_{_{\mathbf{z}\mathbf{y}}}$
096.	The regression line always pass through the point	1
	A origin	B mean
	C S.D	D(x,y)
097.	If x and y are random variables and a ,b, c, d are constants the r(ax +	
	$\frac{A}{ bd }r(x,y)$	$\frac{\mathrm{B}}{ ab }r(x,y)$
	$\frac{C}{ bd }r(x,y)$	$\frac{\mathrm{D}}{ ac } \frac{ac}{ ac } r(x, y)$
	bd	ac
098.	If n = 10, $\sigma_x = 5.4$, $\sigma_y = 6.2$, $\sum (x - \bar{x})(y - \bar{y}) = 66$, then r =	
	•	
	A 0.1971	B 0.2971
		D 0.5
	The functional relationship between independent and dependent vari	
	A correlation	B regression
	C ANOVA	D qualitycontrol
	The angle(obtuse) between two regression lines is given by	R 2.1 mm
	$A \tan \theta = \frac{1 - r^2}{r} - \frac{\sigma_x \sigma_y}{\sigma_x^2 + \sigma_y^2}$	$B \tan \theta = \frac{r^2 - 1}{r} - \frac{\sigma_x \sigma_y}{\sigma_x^2 + \sigma_y^2}$
	$r = \sigma_{x}^{-} + \sigma_{y}^{-}$	$r = \sigma_x^2 + \sigma_y^2$

101. A random variable is a 1 and 1 art 2
$$\frac{\sigma_1 \sigma_2}{r}$$
 $\frac{\sigma_1 \sigma_2}{\sigma_1^2 \sigma_2^2}$ 10 $\frac{1}{\tan \theta} - \frac{1-r^2}{r} \frac{\sigma_1^2 \sigma_2^2}{\sigma_1^2 \sigma_2^2}$ 11 $\frac{1}{\tan \theta} - \frac{1-r^2}{r} \frac{\sigma_1^2 \sigma_2^2}{\sigma_1^2 \sigma_2^2}$ 12 $\frac{1}{\tan \theta} - \frac{1-r^2}{r} \frac{\sigma_1^2 \sigma_2^2}{\sigma_1^2 \sigma_2^2}$ 13 $\frac{1}{\tan \theta} - \frac{1-r^2}{r} \frac{\sigma_1^2 \sigma_2^2}{\sigma_1^2 \sigma_2^2}$ 14 $\frac{1}{\tan \theta} - \frac{1-r^2}{r} \frac{\sigma_1^2 \sigma_2^2}{\sigma_1^2 \sigma_2^2}$ 15 $\frac{1}{\tan \theta} - \frac{1-r^2}{r} \frac{\sigma_1^2 \sigma_2^2}{\sigma_1^2 \sigma_2^2}$ 16. The relation between the two regression coefficients is given by $\frac{1}{2} + \frac{1}{2} +$

119. If X is discrete random variable and \square is a constant then \square is D A 1/3 B 1/4 C 1/5 D 1/2 120. Which of the following is False D B E(X + Y) = E(X) + E(Y)A E(X - Y) = E(X) - E(Y)C E(aX - bY) = aE(X) - bE(Y) $D_E\left(\frac{1}{X}\right) = \frac{1}{E(X)}$ В **121.** If X, Y are two discrete random variable and \square are two constant then \square is B aE(X) + bE(Y)A aE(X+Y)Cab + E(XY)D aE(X) + bY122. If X, Y are two independent discrete random variable then \triangleright is D B E(X) + E(Y)CXE(Y)DE(X).E(Y)123. If X is discrete random variable and \square is mean of the random variable then \square is $C \bar{X} + E(X)$ $D\bar{X} - E(X)$