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SASTRA » Numerical & Statistical Analysis

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Unit 4 - UNIT - IV: Statistical distributions and Test of hypothesis

Course outline	Assessment 11	
UNIT - I: Transcendental Polynomial & Simultaneous equations and ⊞ Interpolations ()	The due date for submitting this assignment has passed. Due on 2023-06-04, 2 As per our records you have not submitted this assignment. 1) When the values of X and Y are in the opposite direction the correlation between them is called Positive correlation	23:59 IST. 1 point
UNIT - II : Numerical differentiation and ⊞ Integration ()	Negative correlation No correlation Multiple correlation	
UNIT - III : Numerical Solutions of ODE ①	No, the answer is incorrect. Score: 0 Accepted Answers: Negative correlation	
UNIT - IV : Statistical distributions and Test of hypothesis ☐ ()	2) If the two regression coefficients are -0.6 and 0.6, then the coefficient of correlation is -0.36 0.36 0.6 such case do not arise No, the answer is incorrect. Score: 0	1 point
Lesson 1: Binomial distribution (week 10) (unit? unit=51&lesson=52)	Accepted Answers: such case do not arise 3) The relationship between 3 or more variables is studied with the help of correlation.	1 point
Lecture 2: Poisson distribution(week 10) (unit? unit=51&lesson=53)	Simple. Multiple. Rank. partial	
Lecture 3: Normal distribution (week 10) (unit? unit=51&lesson=54)	No, the answer is incorrect. Score: 0 Accepted Answers: Multiple.	
Lesson 4:Fitting the distribution to the data(week 10) (unit? unit=51&lesson=55)	4) The relationship between 2 variables among three variables is studied with the help of correlation. () () Simple. () () Multiple. () () Rank. () ()	1 point
Lecture 5: Correlation (week 11) (unit? unit=51&lesson=56)	Partial 0 0	
Quiz: Assessment 10 (assessment? name=68)	No, the answer is incorrect. Score: 0 Accepted Answers: Partial	
Lecture 6: Rank correlation(week 11) (unit? unit=51&lesson=57)	 0 0 5) The product of two regression coefficients is the value of x at the point of intersection of the lines 	1 point

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Lecture 7: Multiple correlation (week 11) (unit?	 the value of y at the point of intersection of the lines square of the correlation coefficient. the distance of the point of intersection from the origin 	
unit=51&lesson=58)	No, the answer is incorrect.	
Lecture 8: Regression Equations (week 11) (unit? unit=51&lesson=59)	Score: 0 Accepted Answers: square of the correlation coefficient. 6) If both the regression coefficients are negative the correlation coefficient is	1 point
Lecture 9: Regression Equations (week 11) (unit? unit=51&lesson=60)	opositive negative Infinite	
Quiz: Assessment – 11 (assessment? name=70)	No, the answer is incorrect. Score: 0 Accepted Answers: negative	
Lecture 10: Small samples - t-test (week 12) (unit? unit=51&lesson=61)	7) The coefficient of correlation is between the regression coefficients. Arithmetic mean Geometric mean Harmonic mean None of the above	1 point
Lecture 11: t-test (contd.,) (week 12) (unit? unit=51&lesson=62)	No, the answer is incorrect. Score: 0 Accepted Answers: Geometric mean	
Lecture 12: F- test (week 12) (unit? unit=51&lesson=63)	 8) In the regression line of Y on X which one of the following is true Y is independent and X is dependent X is independent and Y is dependent 	1 point
Lecture 13: Chi-square test (week 12) (unit? unit=51&lesson=64)	 both X and Y are dependent both X and Y are independent. No, the answer is incorrect. Score: 0 	
Lecture 14: Chi-square test (contd.,) (week 12) (unit? unit=51&lesson=65)	Accepted Answers: X is independent and Y is dependent 9) In the regression line of X on Y which one of the following is true	1 point
Quiz: Assessment 12 (assessment? name=72)	 Y is independent and X is dependent X is independent and Y is dependent both X and Y are dependent both X and Y are independent. 	
Lecture 15: Large Sample - Z-test (week 13) (unit? unit=51&lesson=66)	No, the answer is incorrect. Score: 0 Accepted Answers: Y is independent and X is dependent	
Lecture 16: z-test (contd.,) (week 13) (unit? unit=51&lesson=67)	10) find the correlation coefficient x 1 3 5 8 9 10 y 3 4 8 10 12 11 -0.97 0.97 0.79	1 point
Unit V : Non- parametric statistical methods & Time	O -0.79 No, the answer is incorrect. Score: 0 Accepted Answers: 0.97	
⊕ series analysis ()	 11) Correlation can be Positive linear correlation Negative linear correlation No correlation All of the above. 	1 point
	No, the answer is incorrect. Score: 0 Accepted Answers: All of the above.	
	12) If the two regression coefficients are -0.4 and -0.9, then the coefficient of correlation is -0.36 0.36 0.6	1 point
	○-0.6	

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No, the answer is incorrect.
 Accepted Answers:
 -0.6
13) Obtain the rank correlation coefficient from the following data. (x, y) (68,62) (64,58) (75,68) (50,45) (64,81) (80,60)
                                                                                                                             1 point
(75,68) (40,48) (55,50) (64,70)
  0.545
  0.554
  0.455
  0.554
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 0.545
14) Obtain the equations of two lines of regression for the following data.
                                                                                                                             1 point
 X 65 66 67 67 68 69 70 72
Y 67 68 65 68 72 72 69 71
  y = 0.665x + 23.78, x = 0.54y + 30.74
  \bigcirc y = 0.665x -- 23.78, x = 0.54y -- 30.74
  y = 0.665x -- 23.78, x = 0.54y +30.74
  y = 0.665x + 23.78, x = 0.54y --- 30.74
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 y = 0.665x + 23.78, x = 0.54y + 30.74
15) In a partially destroyed record, the following information obtained. variance of x = 9, regression equations 8x -- 10y + 66 = 0; 1 point
40x - 18y = 214. find the correlation coefficient.
  0.6
  0.6
  0.66
   -0.66
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 0.6
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