MATHS

BOOKS - UNITED BOOK HOUSE

MODEL QUESTION PAPERS SET-07

Exercise

1. Fill up : If $b_{xy} = -0.09$ and $b_{yx} = -0.4$ then r_{xy} = ___.

2. Fill up : The point of intersection of two regression lines give the___.

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3. Fill up : An over all rise or fall in a time series is called the___.

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4. Fill up : In a trend equation $y = a + bx$, a is the___ and b represents the___.

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5. Fill up : A polynomial of the form $y = a + bx + cx^2$ is called a ___.

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6. Fill up : In a symmetrical binomial distribution, p = ___.

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7. Fill up : In a normal distribution, the value of 3rd order central moment is ___.

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8. State True/False : The variance of binomial distribution can never exceed the mean.

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9. State True/False : For nornial distribution, the co-efficient of skewness is 3.

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10. State True/False : The parameter p and n completely determine a binomial distribution.

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11. State True/False : The correlation co-efficient x and y is 0.5, then between $-2x$ and $-3y$ is -0.5.

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12. State True/False : The two regression equations coincide when $r = \pm 1$.

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13. State True/False : If Cov $(x, y) = 0$, then x and y are independent.

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14. Short Questions: What will be r_{xy} if the two regression lines are coincident.

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15. Short Questions: Calculate the means of the variables x and y, given the regression lines as $x + 6y = 8$ and $3x + 2y = 10$.

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16. Short Questions: Short notes: (i) Secular trend (ii) method of moving averages.

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17. Short Questions: The p.m.t. of a r.v.x. is given by $f(x) = K.\, x^2, x = 1, 2, 3, \ldots, n$ Find the value of K.

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18. Short Questions: For a poisson distribution, P[x = K] = P[x=K+1], Find the mean and variance of the distribution.

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19. Textual Questions: Explain different components of a time series.

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