

Question No: 1 (Marks: 1) - Please choose one

For a particular data the value of Pearson's coefficient of skewness is greater than zero. What will be the shape of distribution?

- ▶ Negatively skewed
- ▶ J-shaped
- ▶ Symmetrical
- ▶ **Positively skewed (Page 109)**

Question No: 2 (Marks: 1) - Please choose one

In measures of relative dispersion unit of measurement is:

- ▶ Changed
- ▶ **Vanish**
- ▶ Does not change
- ▶ Dependent

Question No: 3 (Marks: 1) - Please choose one

The F-distribution always ranges from:

- ▶ 0 to 1
- ▶ 0 to $-\infty$
- ▶ $-\infty$ to $+\infty$
- ▶ **0 to $+\infty$ (Page 312)**

دنیا میں سب سے مشکل کام اپنی اصلاح اور سب سے آسان کام دوسروں پر نکتہ چینی کرنا ہے

Question No: 4 (Marks: 1) - Please choose one

In chi-square test of independence the degrees of freedom are:

- ▶ **n - p**
- ▶ n - p-1
- ▶ n - p- 2
- ▶ n - 2

Question No: 5 (Marks: 1) - Please choose one

The Chi- Square distribution is continuous distribution ranging from:

- ▶ $-\infty \leq \chi^2 \leq \infty$
- ▶ $-\infty \leq \chi^2 \leq 1$
- ▶ $-\infty \leq \chi^2 \leq 0$
- ▶ **$0 \leq \chi^2 \leq \infty$ (Page 307)**

Question No: 6 (Marks: 1) - Please choose one

If X and Y are random variables, then $E(X - Y)$ is equal to:

- ▶ $E(X) + E(Y)$
- ▶ $E(X) - E(Y)$ **(Page 202)**
- ▶ $X - E(Y)$
- ▶ $E(X) - Y$

Question No: 7 (Marks: 1) - Please choose one

If \hat{y} is the predicted value for a given x-value and b is the y-intercept then the equation of a regression line for an independent variable x and a dependent variable y is:

- ▶ **$\hat{y} = mx + b$, where m = slope (Page 121)**
- ▶ $x = \hat{y} + mb$, where m = slope
- ▶ $\hat{y} = x/m + b$, where m = slope
- ▶ $\hat{y} = x + mb$, where m = slope

Question No: 8 (Marks: 1) - Please choose one

The location of the critical region depends upon:

- ▶ Null hypothesis
- ▶ **Alternative hypothesis (Page 281)**
- ▶ Value of alpha
- ▶ Value of test-statistic

Question No: 1 (Marks: 1) - Please choose one

The t-Distribution is..... Spread out then the standard normal Distribution.

- ▶ Less
- ▶ **More (Page 293)**
- ▶ Equally
- ▶ Not

Question No: 2 (Marks: 1) - Please choose one

To find the confidence interval for the ratio of two variances we use:

- ▶ **F-Distribution (Page 311)**
- ▶ Z-Distribution
- ▶ Chi-Square Distribution
- ▶ T-Distribution

Question No: 3 (Marks: 1) - Please choose one

How many percent of values are less than 4th deciles in a symmetric distribution.

- ▶ 14
- ▶ 24
- ▶ 4
- ▶ **40 (Page 70)**

Question No: 4 (Marks: 1) - Please choose one

The combined distribution of more than two random variables is:

- ▶ Bivariate Distribution
- ▶ Marginal Distribution
- ▶ **Joint Distribution (Page 194)**
- ▶ Univariate Distribution

Question No: 5 (Marks: 1) - Please choose one

The degrees of freedom for a T-test with sample size 14 is:

- ▶ 14
- ▶ **13 (Page 341)**
- ▶ 7
- ▶ 0

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

اللہ کا خوف سب سے بڑی دانائی ہے

Question No: 6 (Marks: 1) - Please choose one

Which of the following is true for the binomial distribution $b(x; n, p)$:

- ▶ **Mean > Variance (Page 214)**
- ▶ Mean < Variance
- ▶ Mean = Variance
- ▶ Mean = Standard Deviation

Question No: 7 (Marks: 1) - Please choose one

What is mf in the formula of mode?

- ▶ first frequency
- ▶ last frequency
- ▶ middle frequency
- ▶ **highest frequency (Page 54)**