

Muhammad Moaaz Siddiq – MCS(4th)

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**Campus:- Institute of E-Learning & Modern Studies
(IEMS) Samundari**

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

The value of χ^2 can never be :

- ▶ Zero–
- ▶ Less than 1
- ▶ Greater than 1
- ▶ **Negative (Page 307)**

ایماندار کو غصہ دیر سے آتا ہے اور جلدی دور ہو جاتا ہے

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Question No: 2 (Marks: 1) - Please choose one
The mean of the F-distribution is:

▶ $\frac{v_1}{v_1 - 2} \text{ for } v_1 > 2$

▶ $\frac{v_2}{v_2 - 2} \text{ for } v_2 > 2$

(Page 312)

▶ $\frac{v_1}{v_1 - 2} \text{ for } v_1 \geq 2$

▶ $\frac{v_2}{v_2 - 2} \text{ for } v_1 \leq 2$

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) rep**

Question No: 4 (Marks: 1) - Please choose one
The total number of samples when sampling is done with replacement :

▶ N^n (Page 237)

▶ C_n^N

▶ $\frac{N-n}{N-1}$

▶ 1

زندگی میں کامیابی کا یہی راز ہے کہ پریشانیوں سے پریشان مت بنو

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

ANOVA was introduced by :

- ▶ Helmert
- ▶ Pearson
- ▶ **R.A Fisher (Page 320)**
- ▶ Francis

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

The test statistic used in analysis of variance procedure follow the distribution.:

- ▶ χ^2
- ▶ T
- ▶ Z
- ▶ **F (Page 326)**

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

For testing of hypothesis about population proportion , we use:

- ▶ **Z-test (Page 292)**
- ▶ t-Test
- ▶ Both Z & T-test
- ▶ F test

Question No: 8 (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) rep**
- ▶ $X - E(Y)$
- ▶ $E(X) - Y$

Question No: 9 (Marks: 1) - Please choose one

A die is rolled. What is the probability that the number rolled is greater than 2 and even:

- ▶ 1/2
- ▶ 1/3
- ▶ **2/3** $4/6 = 2/3$
- ▶ 5/6

Question No: 10 (Marks: 1) - Please choose one

The probability of drawing a king of spade from a pack of 52 cards is:

- ▶ 1/4
- ▶ 1/13
- ▶ 1/26
- ▶ **1/52**

Question No: 11 (Marks: 1) - Please choose one

An estimator T is said to be unbiased estimator of θ if

- ▶ **$E(T) = \theta$ (Page 258)**
- ▶ $E(T) = T$
- ▶ $E(T) = 0$
- ▶ $E(T) = 1$

Question No: 12 (Marks: 1) - Please choose one

From point estimation, we always get:

- ▶ **Single value (Page 257)**
- ▶ Two values
- ▶ Range of values
- ▶ Zero

Question No: 13 (Marks: 1) - Please choose one

The best unbiased estimator for population variance σ^2 is:

- ▶ Sample mean
- ▶ Sample median
- ▶ Sample proportion
- ▶ **Sample variance (Page 260)**

Question No: 14 (Marks: 1) - Please choose one

When c is a constant, then $E(c)$ is:

- ▶ 0
- ▶ 1
- ▶ **c (Page 180)**
- ▶ -c

دنیا کی سب سے بڑی فتح نفس پر قابو رکھنا ہے

Question No: 15 (Marks: 1) - Please choose one

$\text{Var}(4X + 5) = \underline{\hspace{2cm}}$

- ▶ 16 Var (X)
- ▶ 16 Var (X) + 5
- ▶ **4 Var (X) + 5**
- ▶ 12 Var (X)

Question No: 16 (Marks: 1) - Please choose one

When $f(x)$ is continuous probability function, then $P(X = 1)$ is:

- ▶ 1
- ▶ ∞
- ▶ $-\infty$
- ▶ **0 (Page 188)**

Question No: 17 (Marks: 1) - Please choose one

The hyper geometric random variable is a(an):

- ▶ Continuous variable
- ▶ **Discrete variable** [Click here for detail](#)
- ▶ Undefined
- ▶ Independent variable

Question No: 18 (Marks: 1) - Please choose one

From a sample of 200 people were asked whether they like a particular product. Fifty said 'yes' and remain said 'no', assuming 'yes' means a success, which of the following is correct?

- ▶ Sample proportion $p=0.33$
- ▶ **Sample proportion $p=0.25$ (Page 245)**
- ▶ Population proportion $p= 0.33$
- ▶ Population proportion $p=0.25$

Question No: 19 (Marks: 1) - Please choose one

In any data set, what percent of values fall in the interval $\text{Median} \pm Q.D$?

- ▶ **50 per cent (Page 84)**
- ▶ 68.5 per cent
- ▶ 95.4 per cent
- ▶ 99 per cent

جھوٹ انسان اور ایمان دونوں کا دشمن ہے

Question No: 20 (Marks: 1) - Please choose one

$$\sum_{i=1}^5 (X_i - 20) = 0, \text{ then } \bar{X} = \dots\dots$$

If

- ▶ **0 (Page 258)**
- ▶ 20
- ▶ 5
- ▶ 25

Question No: 21 (Marks: 1) - Please choose one

The height of a student is 60 inches. This is an example of

- ▶ Continuous data
- ▶ Qualitative data
- ▶ Categorical data
- ▶ **Discrete data**

Question No: 22 (Marks: 1) - Please choose one

In Statistics, we have MSE which is abbreviation of.....

- ▶ **Mean square error (Page 330)**
- ▶ Measured square error
- ▶ Medical screening exam
- ▶ Major sampling error

Question No: 23 (Marks: 1) - Please choose one

Which one is the formula of mid range:

- ▶ $x_m - x_0$
- ▶ $x_0 - x_m$
- ▶ $\frac{x_0 - x_m}{2}$
- ▶ $\frac{x_0 + x_m}{2}$ **(Page 80)**

عقل مند کہتا ہے میں کچھ نہیں جانتا جبکہ بے وقوف کہتا ہے کہ میں سب کچھ جانتا ہوں

Question No: 24 (Marks: 1) - Please choose one
The deviation of a distribution from symmetry is called:

- ▶ Kurtosis
- ▶ **Skewness**
- ▶ Dispersion
- ▶ Flatness

Question No: 25 (Marks: 1) - Please choose one
If E is an impossible event, then P(E) is:

- ▶ 1
- ▶ 2
- ▶ **0 (Page 146)**
- ▶ 0.5

Question No: 26 (Marks: 1) - Please choose one
If a data set has the even number of observations, the median :

- ▶ Is the average value of the two middle items
- ▶ Can not be determined
- ▶ must be equal to the mean
- ▶ **Is the average value of the two middle items when all items are arranged in ascending order**

[Click here for detail](#)

Question No: 27 (Marks: 1) - Please choose one

For the Poisson distribution $P(X = 1) = \frac{e^{-0.135} 0.135^1}{1!}$ the mean value is :

- ▶ 2
- ▶ 5
- ▶ 10
- ▶ **0.135 (Page 222)**

Question No: 28 (Marks: 1) - Please choose one
In testing of hypothesis, we always begin it with assuming that:

- ▶ **Null hypothesis is true (Page 277)**
- ▶ Alternative hypothesis is true
- ▶ Sample size is large
- ▶ Population is normal

خود کو تمہیں سے بڑھ کر کوئی اچھا مشورہ نہیں دے سکتا

Question No: 29 (Marks: 1) - Please choose one
Variance of the t-distribution is given by the formula:

▶ $\sigma^2 = \sqrt{\frac{v}{v-2}}$

▶

$\sigma^2 = \frac{v^2}{v-2}$

▶

$\sigma^2 = \frac{v}{v-1}$

▶

$\sigma^2 = \frac{v}{v-2}$ (Page 293)

▶

Question No: 30 (Marks: 1) - Please choose one

If a continuous probability distribution has $\beta_2 = 2.14$ then what will be peakedness of the distribution?

- ▶ **Platykurtic (Page 119)**
- ▶ Mesokurtic
- ▶ Leptokurtic
- ▶ Moderately skewed

FINAL TERM EXAMINATION

Spring 2010

STA301- Statistics and Probability (Session - 4)

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

When each outcome of a sample space has equal chance to occur as any other, the outcomes are called:

- ▶ Mutually exclusive
- ▶ **Equally likely (Page 117)**
- ▶ Not mutually exclusive
- ▶ Exhaustive

جو شخص ناکامیوں سے ڈر کر بھاگتا ہے کامیابی اس سے ڈر کر بھاگتی ہے

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▶ $\frac{v_2}{v_2 - 2} \text{ for } v_1 \leq 2$

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

The LSD test is applied only if the null hypothesis is:

▶ **Rejected (Page 331)**

▶ Accepted

▶ No conclusion

▶ Acknowledged

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

Analysis of variance is a procedure that enables us to test the equality of several:

▶ Variances

▶ **Means (Page 320)**

▶ Proportions

▶ Groups

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

ANOVA was introduced by :

▶ Helmert

▶ Pearson

▶ **R.A Fisher (Page 320) rep**

▶ Francis

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For testing of hypothesis about population proportion , we use:

- ▶ **Z-test (Page 292) rep**
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Question No: 7 (Marks: 1) - Please choose one

If a random variable X denotes the number of heads when three distinct coins are tossed, the X assumed the values:

- ▶ **0,1,2,3**
- ▶ 1,3,3,1
- ▶ 1, 2, 3
- ▶ 3, 2

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

If X and Y are independent variables, then E (XY) is:

- ▶ E(XX)
- ▶ **E(X).E(Y) (Page 202)**
- ▶ X.E(Y)
- ▶ Y.E(X)

Question No: 9 (Marks: 1) - Please choose one

The parameters of the binomial distribution $b(x; n, p)$ are:

- ▶ x & n
- ▶ **x & p (Page 212) rep**
- ▶ n & p
- ▶ x, n & p

Question No: 10 (Marks: 1) - Please choose one

If P (E) is the probability that an event will occur, which of the following must be false:

- ▶ **P(E)= - 1**
- ▶ P(E)=1
- ▶ P(E)=1/2
- ▶ P(E)=1/3

جو لوگوں کے سامنے فخر کرتا ہے وہ لوگوں کی نظروں سے گر جاتا ہے

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An estimator T is said to be unbiased estimator of θ if

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The best unbiased estimator for population variance σ^2 is:

- ▶ **Sample mean (Page 260) rep**
- ▶ Sample median
- ▶ Sample proportion
- ▶ Sample variance

Question No: 13 (Marks: 1) - Please choose one

$$S^2 = \frac{\sum(x - \bar{x})^2}{n}$$

The sample variance is:

- ▶ Unbiased estimator of σ^2
- ▶ **Biased estimator of σ^2 (Page 260)**
- ▶ Unbiased estimator of μ
- ▶ None of these

Question No: 14 (Marks: 1) - Please choose one

When c is a constant, then E(c) is:

- ▶ 0
- ▶ 1
- ▶ **c (Page 180) rep**
- ▶ -c

عقل مند اپنے عیب خود دیکھتا ہے اور بیوقوفوں کے عیب دنیا دیکھتی ہے

Question No: 15 (Marks: 1) - Please choose one

If $f(x, y)$ is bivariate probability density function of continuous r.v.'s X and Y then

$g(x)$ is:

▶ $\int_{-\infty}^{\infty} f(x, y) dx$

▶ $\int_{-\infty}^{\infty} f(x, y) dy$

▶ $\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} f(x, y) dx dy$ (Page 199)

▶ $\int_a^b \int_c^d f(x, y) dy dx$

Question No: 16 (Marks: 1) - Please choose one

The analysis of variance technique is a method for :

- ▶ Comparing F distributions
- ▶ **Comparing three or more means** (Page 320)
- ▶ Measuring sampling error
- ▶ Comparing variances

Question No: 17 (Marks: 1) - Please choose one

The continuity correction factor is used when:

- ▶ The sample size is at least 5
- ▶ Both nP and $n(1-P)$ are at least 30
- ▶ **A continuous distribution is used to approximate a discrete distribution** [Click here for detail](#)
- ▶ The standard normal distribution is applied

Question No: 18 (Marks: 1) - Please choose one

Stem and leaf is more informative when data is :

- ▶ Equal to 100
- ▶ Greater Than 100
- ▶ **Less than 100** [click here for detail](#)
- ▶ In all situations

Question No: 19 (Marks: 1) - Please choose one

The branch of Statistics that is concerned with the procedures and methodology for obtaining valid conclusions is called:

- ▶ Descriptive Statistics
- ▶ Advance Statistics
- ▶ **Inferential Statistics (Page 237)**
- ▶ Sampled Statistics

Question No: 20 (Marks: 1) - Please choose one

Which of the following is a systematic arrangement of data into rows and columns?

- ▶ Classification
- ▶ **Tabulation**
- ▶ Bar chart
- ▶ Component bar chart

Question No: 21 (Marks: 1) - Please choose one

In normal distribution Q.D =

- ▶ 0.5σ
- ▶ 0.75σ
- ▶ 0.7979σ
- ▶ 0.6745σ [Click here for detail](#)

Question No: 22 (Marks: 1) - Please choose one

In normal distribution $\beta_2 =$

- ▶ 1
- ▶ 2
- ▶ **3 (Page 119)**
- ▶ 0

Question No: 23 (Marks: 1) - Please choose one

If you connect the mid-points of rectangles in a histogram by a series of lines that also touches the x-axis from both ends, what will you get?

- ▶ Ogive
- ▶ Frequency polygon
- ▶ **Frequency curve (Page 38)**
- ▶ Histogram

Question No: 24 (Marks: 1) - Please choose one

Which one of the following statements is true regarding a population?

- ▶ **It must be a large number of values (Page 12)**
- ▶ It must refer to people
- ▶ It is a collection of individuals, objects, or measurements
- ▶ It is small part of whole

Question No: 25 (Marks: 1) - Please choose one

$$Q_1 = 2 \text{ and } Q_3 = 4$$

When _____, what is the value of Median, if the distribution is symmetrical:

- ▶ 1
- ▶ **2**
- ▶ 3
- ▶ 4

Question No: 26 (Marks: 1) - Please choose one

In a simple linear regression model, if it is assumed that the intercept parameter is equal to zero, then:

- ▶ The regression line will pass through the origin
- ▶ The regression line will pass through the point (0,10).
- ▶ The regression line will pass through the point (0,-10).
- ▶ **The slope of the line will also be equal to 0.**

Question No: 27 (Marks: 1) - Please choose one

The degrees of freedom for a t-test with sample size 10 is:

- ▶ 5
- ▶ 8
- ▶ **9 (Page 298) rep**
- ▶ 10

Question No: 28 (Marks: 1) - Please choose one

In testing of hypothesis, we always begin it with assuming that:

- ▶ **Null hypothesis is true (Page 277) rep**
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- ▶ Population is normal

بد صورت چہرہ بد صورت دماغ سے بہتر ہے

Question No: 29 (Marks: 1) - Please choose one
A failing student is passed by an examiner is an example of:

- ▶ Type I error
- ▶ **Type II error**
- ▶ Correct decision
- ▶ No information regarding student exams

Question No: 30 (Marks: 1) - Please choose one

How to find $P(X + Y \leq 1)$?

- ▶ $f(0, 0) + f(0, 1) + f(1, 2)$
- ▶ $f(2, 0) + f(0, 1) + f(1, 0)$
- ▶ $f(0, 0) + f(1, 1) + f(1, 0)$
- ▶ $f(0, 0) + f(0, 1) + f(1, 0)$

Question No: 1 (Marks: 1) - Please choose one
The total number of samples when sampling is done with replacement :

- ▶ N^n (Page 237) rep
- ▶ C_n^N
- ▶ $\frac{N-n}{N-1}$
- ▶ 1

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

The test statistic used in analysis of variance procedure follow the distribution.:

- ▶ χ^2
- ▶ T
- ▶ Z
- ▶ **F (Page 326) rep**

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If a random variable X denotes the number of heads when three distinct coins are tossed, the X assumed the values:

- ▶ **0,1,2,3 rep**
- ▶ 1,3,3,1
- ▶ 1, 2, 3
- ▶ 3, 2

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

If X and Y are independent variables, then E (XY) is:

- ▶ E(XX)
- ▶ **E(X).E(Y) (Page 202) rep**
- ▶ X.E(Y)
- ▶ Y.E(X)

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

$$S^2 = \frac{\sum(x - \bar{x})^2}{n}$$

The sample variance is:

- ▶ Unbiased estimator of σ^2
- ▶ **Biased estimator of σ^2 (Page 260) rep**
- ▶ Unbiased estimator of μ
- ▶ None of these

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

When c is a constant, then E(c) is:

- ▶ 0
- ▶ 1
- ▶ **c (Page 180) rep**
- ▶ -c

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

When the random variable X and Y are independent, its co-variance is:

- ▶ One
- ▶ Negative
- ▶ **Zero (Page 207)**
- ▶ Positive

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

When f (x, y) is bivariate probability density function of continuous r.v.'s X and Y, then

$$\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} f(x, y) dx dy$$

is equal to:

- ▶ **1 (Page 199)**
- ▶ 0
- ▶ -1
- ▶ ∞

Question No: 9 (Marks: 1) - Please choose one

Which dispersion is calculated from all the observations?

- ▶ **Standard deviation**
- ▶ Quartile deviation
- ▶ Rang
- ▶ Coefficient of Rang

Question No: 10 (Marks: 1) - Please choose one

Standard deviation of the data 7, 7, 7, 7, 7, 7, 7 is

- ▶ 49
- ▶ Sqrt (7)
- ▶ **0 Standard deviation will always be zero if all the values in data are same**
- ▶ 7

Question No: 11 (Marks: 1) - Please choose one

Which one is the poor measure of dispersion in open-end distribution?

- ▶ **Range**
- ▶ Standard deviation
- ▶ Mean deviation
- ▶ Variance

Question No: 12 (Marks: 1) - Please choose one

Men tend to marry women who are slightly younger than themselves. Suppose that every man married a woman who was exactly 5 years younger than themselves. Which of the following is correct:

- ▶ The correlation is -5
- ▶ The correlation is 5
- ▶ **The correlation is 1** [Click here for detail](#)
- ▶ The correlation is 0

Question No: 13 (Marks: 1) - Please choose one

Sum of absolute deviations of the values is least when deviations are taken from:

- ▶ **Mean**
- ▶ Median
- ▶ Mode
- ▶ Geometric mean

Question No: 14 (Marks: 1) - Please choose one

Which of the following measures of central location is affected most by extreme values:

- ▶ Geometric Mean
- ▶ Median
- ▶ **Mean** [Click here for detail](#)
- ▶ Mode

Question No: 15 (Marks: 1) - Please choose one

Which of the following is a critical value of Z when $1 - \alpha = 95\%$ for one tailed test:

- ▶ 2.58
- ▶ 1.645
- ▶ 1.25
- ▶ **1.96**

بہترین تجربہ وہ ہے جس سے نصیحت حاصل ہو

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In normal distribution Q.D =

- ▶ 0.5σ
- ▶ 0.75σ
- ▶ 0.7979σ
- ▶ 0.6745σ [Click here for detail](#) rep

Question No: 17 (Marks: 1) - Please choose one

The difference between expected value of statistic and parameter is called:

- ▶ Non-sampling error
- ▶ Sampling error
- ▶ Standard error
- ▶ **Bias** [Click here for detail](#)

Question No: 18 (Marks: 1) - Please choose one

In Statistics, we have MSE which is abbreviation of.....

- ▶ **Mean square error (Page 330) rep**
- ▶ Measured square error
- ▶ Medical screening exam
- ▶ Major sampling error

Question No: 19 (Marks: 1) - Please choose one

The following data shows the number of hours worked by 200 statistics students.

<u>Number of Hours</u>	<u>Frequency</u>
0 - 9	40
10 - 19	50
20 - 29	70
30 - 39	40

What is its class interval?

- ▶ 9
- ▶ **10**
- ▶ 11
- ▶ Varies from class to class

خوبصورتی علم و ادب سے ہوتی ہے لباس و حسن سے نہیں

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Which one is the formula of range:

- ▶ $x_m - x_0$
- ▶ $x_0 - x_m$
- ▶ $\frac{x_0 - x_m}{2}$
- ▶ $\frac{x_0 + x_m}{2}$ (Page 80)

Question No: 21 (Marks: 1) - Please choose one

Which one is the formula of Geometric mean for group data:

- ▶ $\text{anti log} \left[\frac{\sum f \log X}{n} \right]$
- ▶ $\text{anti log} \left[\frac{\sum \log X}{n} \right]$ (Page 75)
- ▶ $\text{anti log} \left[\frac{\sum \log f X}{n} \right]$
- ▶ $\text{anti log} \left[\frac{\sum \log f X}{\sum_{i=1}^n f} \right]$
- ▶

Question No: 22 (Marks: 1) - Please choose one

The F-distribution has parameter.

- ▶ One
- ▶ No
- ▶ Two (Page 312)
- ▶ Three

تم اچھا کرو زمانہ تم کو برا سمجھے یہ اس سے بہتر ہے کہ تم برا کرو اور زمانہ تم کو اچھا سمجھے

Question No: 23 (Marks: 1) - Please choose one

$$\bar{X} = \frac{\sum X}{n}$$

The sample mean is an unbiased estimator of population mean (μ) , because:

- ▶ $E(\bar{X}) = 0$
- ▶ $E(\bar{X}) = \mu$ **(Page 259)**
- ▶ $E(\bar{X}) > \mu$
- ▶ $E(\bar{X}) < \mu$

Question No: 24 (Marks: 1) - Please choose one

For a particular hypothesis test, $\alpha = 0.05$ and $\beta = 0.10$. The power of test equals to:

- ▶ 0.95
- ▶ 0.25
- ▶ **0.90**
- ▶ 0.14

Question No: 25 (Marks: 1) - Please choose one

The degrees of freedom for a t-test with sample size 10 is:

- ▶ 5
- ▶ 8
- ▶ **9 (Page 298) rep**
- ▶ 10

Question No: 26 (Marks: 1) - Please choose one

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

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

Question No: 27 (Marks: 1) - Please choose one

The degrees of freedom for a t-test with sample size 6 is:

- ▶ 1
- ▶ 3
- ▶ **5 (Page 341)**
- ▶ 7

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- ▶ Leptokurtic
- ▶ Moderately skewed

Question No: 30 (Marks: 1) - Please choose one

The difference between statistic and parameter is called:

- ▶ **Bias [Click here for detail](#) rep**
- ▶ Standard error
- ▶ Sampling error
- ▶ None of above