



STAFF SELECTION COMMISSION
(Government of India)

Combined Graduate Level Examination 2024 Tier II

Roll Number	
Candidate Name	
Venue Name	DD College
Exam Date	19/01/2025
Exam Time	9:00 AM - 11:00 AM
Subject	CGLE 2024 Tier II Paper II Statistics

Section : Statistics

Q.1 For the bivariate random variable (X,Y), let the joint probability density function be $f(x,y) = \frac{9(1+x+y)}{2(1+x)^4(1+y)^4}$ for $0 < x < \infty, 0 < y < \infty$. The marginal pdf of X is:

Ans

- ☒ 1. $\frac{3(2x+3)}{2(1+x)}$
- ☒ 2. $\frac{3(2x+1)}{4(1+x)^4}$
- ☒ 3. $\frac{3(2x+3)}{(1+x)^4}$
- ☒ 4. $\frac{3(2x+3)}{4(1+x)^4}$

Question ID : **6306801352886**

Option 1 ID : **6306805325709**

Option 2 ID : **6306805325707**

Option 3 ID : **6306805325708**

Option 4 ID : **6306805325706**

Status : **Answered**

Chosen Option : **3**

Q.2 Monthly sales data (in units) shows the following trend-adjusted ratios for three months: January (1.1), February (0.9), and March (1.0). What is the average seasonal index for this quarter?

Ans

- ☒ 1. 0.95
- ☒ 2. 0.9
- ☒ 3. 1.0
- ☒ 4. 1.1

Question ID : **6306801302623**

Option 1 ID : **6306805125406**

Option 2 ID : **6306805125408**

Option 3 ID : **6306805125405**

Option 4 ID : **6306805125407**

Status : **Answered**

Chosen Option : **3**



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Q.3 Duncan's Multiple Range Test makes use of which statistical measure?

- Ans**
- ☒ 1. Standard Error of the Means
 - ☒ 2. Regression Coefficient
 - ☒ 3. Range Statistic (R)
 - ☒ 4. F-statistic

Question ID : 6306801294827

Option 1 ID : 6306805093666

Option 2 ID : 6306805093668

Option 3 ID : 6306805093667

Option 4 ID : 6306805093665

Status : Answered

Chosen Option : 3

Q.4 For three random variables X_1 , X_2 and X_3 , the correlation coefficients between pairs of random variables are $r_{12} = r_{13} = r_{23} = r \neq 1$.

For $R_{1,23}$ (multiple correlation coefficient), $1 - R_{1,23}^2$ is written as:

Ans

☒ 1. $\frac{(1+r)(1+2r)}{1-r}$

☒ 2. $\frac{(1+2r)}{1+r}$

☒ 3. $\frac{(1-r)(1+2r)}{1+r}$

☒ 4. $\frac{(1+r)(1-2r)}{1+r}$

Question ID : 6306801352945

Option 1 ID : 6306805325943

Option 2 ID : 6306805325945

Option 3 ID : 6306805325942

Option 4 ID : 6306805325944

Status : Answered

Chosen Option : 4

Q.5 What is the primary challenge in using the free-hand curve method for trend estimation?

- Ans**
- ☒ 1. It is time-consuming and computationally intensive.
 - ☒ 2. It is subjective and may lead to inconsistent results.
 - ☒ 3. It cannot identify cyclical patterns.
 - ☒ 4. It requires advanced statistical knowledge.

Question ID : 6306801302260

Option 1 ID : 6306805123944

Option 2 ID : 6306805123945

Option 3 ID : 6306805123943

Option 4 ID : 6306805123946

Status : Answered

Chosen Option : 2



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Q.6 If the critical region is evenly distributed, then the test is referred to as:

- Ans**
- ☐ 1. Three tailed
 - ☐ 2. Zero tailed
 - ☐ 3. One tailed
 - ☒ 4. Two tailed

Question ID : **6306801307943**
Option 1 ID : **6306805146577**
Option 2 ID : **6306805146578**
Option 3 ID : **6306805146576**
Option 4 ID : **6306805146575**
Status : **Answered**
Chosen Option : **4**

Q.7 Which of the following is NOT true for seasonal variation?

- Ans**
- ☐ 1. Caused by public holidays
 - ☐ 2. Caused by rainfall
 - ☒ 3. Repeated irregularly
 - ☐ 4. Variation in a time series within one year

Question ID : **6306801352953**
Option 1 ID : **6306805325977**
Option 2 ID : **6306805325976**
Option 3 ID : **6306805325975**
Option 4 ID : **6306805325974**
Status : **Answered**
Chosen Option : **3**

Q.8 In a two-way ANOVA, how many hypotheses are tested?

- Ans**
- ☒ 1. Three
 - ☐ 2. One
 - ☐ 3. Four
 - ☐ 4. Two

Question ID : **6306801294823**
Option 1 ID : **6306805093651**
Option 2 ID : **6306805093649**
Option 3 ID : **6306805093652**
Option 4 ID : **6306805093650**
Status : **Answered**
Chosen Option : **1**

Q.9 In ANCOVA, what happens when the covariate is not linearly related to the dependent variable?

- Ans**
- ☒ 1. The results of ANCOVA may be biased.
 - ☐ 2. The covariate becomes irrelevant.
 - ☐ 3. All assumptions of ANCOVA are met.
 - ☐ 4. The F-statistic becomes insignificant.

Question ID : **6306801352934**
Option 1 ID : **6306805325898**
Option 2 ID : **6306805325900**
Option 3 ID : **6306805325901**
Option 4 ID : **6306805325899**
Status : **Answered**
Chosen Option : **1**



Q.10 Let X and Y be two independent Poisson variates with rate 5 and 10, respectively, then the $E(XY=2)$ is equal to:

- Ans**
- ☒ 1. 0.5
 - ☒ 2. 5
 - ☒ 3. 10
 - ☒ 4. 2

Question ID : **6306801352810**

Option 1 ID : **6306805325402**

Option 2 ID : **6306805325403**

Option 3 ID : **6306805325405**

Option 4 ID : **6306805325404**

Status : **Answered**

Chosen Option : **3**

Q.11 The mean of a residual error in a one way classified data analysis is:

- Ans**
- ☒ 1. 2
 - ☒ 2. 0
 - ☒ 3. -1
 - ☒ 4. 1

Question ID : **6306801352853**

Option 1 ID : **6306805325577**

Option 2 ID : **6306805325576**

Option 3 ID : **6306805325574**

Option 4 ID : **6306805325575**

Status : **Answered**

Chosen Option : **2**

Q.12 If the angle between two lines of regression is 90° , then correlation coefficient is:

- Ans**
- ☒ 1. 1
 - ☒ 2. $\frac{1}{2}$
 - ☒ 3. 0
 - ☒ 4. -1

Question ID : **6306801352944**

Option 1 ID : **6306805325941**

Option 2 ID : **6306805325938**

Option 3 ID : **6306805325940**

Option 4 ID : **6306805325939**

Status : **Answered**

Chosen Option : **3**



Q.13 For a monthly data, the link relative for any month is given by:

Ans

✗ 1. $\frac{\text{Current month's Value} - \text{Previous month value}}{2} \times 100$

✗ 2. $\frac{\text{Current month's Value} + \text{Previous month value}}{2} \times 100$

✗ 3. $\frac{\text{Previous month's Value}}{\text{Current month's value}} \times 100$

✓ 4. $\frac{\text{Current month's Value}}{\text{Previous month's value}} \times 100$

Question ID : **6306801352875**

Option 1 ID : **6306805325665**

Option 2 ID : **6306805325664**

Option 3 ID : **6306805325663**

Option 4 ID : **6306805325662**

Status : **Answered**

Chosen Option : **4**

Q.14 On fitting of a trend line $Y = a + bt$ on a time series (with year as a unit of time), the monthly increment/decrement is given by

Ans

✓ 1. $b/12$

✗ 2. $a/12$

✗ 3. a

✗ 4. b

Question ID : **6306801352873**

Option 1 ID : **6306805325656**

Option 2 ID : **6306805325657**

Option 3 ID : **6306805325654**

Option 4 ID : **6306805325655**

Status : **Answered**

Chosen Option : **1**

Q.15 If M: Mean, Md: Median, Mo: Mode, Q_1 : First Quartile and Q_3 : Third Quartile, then which of the following is an absolute measure of skewness?

Ans

✗ 1. $Q_1 - Q_3/Md$

✓ 2. $M - Md$

✗ 3. $M + Mo$

✗ 4. $\frac{Q_3 + Q_1 - 2Md}{Q_3 - Q_1}$

Question ID : **6306801352910**

Option 1 ID : **6306805325804**

Option 2 ID : **6306805325802**

Option 3 ID : **6306805325803**

Option 4 ID : **6306805325805**

Status : **Answered**

Chosen Option : **4**



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Q.16 Which of the following is NOT true?

- Ans**
- ☒ 1. Frequency polygon facilitates the comparison of more than one series of data
 - ☒ 2. Histograms are constructed using cumulative frequencies
 - ☒ 3. Histogram consists of a set of rectangles with bases on horizontal axes
 - ☒ 4. Histogram consists of a set of rectangles with centres at class marks

Question ID : **6306801294078**

Option 1 ID : **6306805090467**

Option 2 ID : **6306805090465**

Option 3 ID : **6306805090466**

Option 4 ID : **6306805090468**

Status : **Answered**

Chosen Option : **2**

Q.17 For a two-way classification with p treatments, q blocks and r observations per cell, the degrees of freedom for error and total, respectively, are:

- Ans**
- ☒ 1. $pq-1$ and $pq(r-1)$
 - ☒ 2. $(p-1)(q-1)$ and $pqr-1$
 - ☒ 3. $pq(r-1)$ and $pqr-1$
 - ☒ 4. $p-1$ and $pq(r-1)$

Question ID : **6306801352937**

Option 1 ID : **6306805325912**

Option 2 ID : **6306805325911**

Option 3 ID : **6306805325910**

Option 4 ID : **6306805325913**

Status : **Answered**

Chosen Option : **1**

Q.18 Let X and Y be two independent Poisson variates with rate 5 and 10, respectively, then the distribution of $Z=X+Y$ is:

- Ans**
- ☒ 1. Poisson distribution with rate 15
 - ☒ 2. Exponential distribution with rate 15
 - ☒ 3. Normal distribution with mean 15 and variance 1
 - ☒ 4. Gamma distribution with rate 5 and shape 10

Question ID : **6306801352803**

Option 1 ID : **6306805325375**

Option 2 ID : **6306805325374**

Option 3 ID : **6306805325377**

Option 4 ID : **6306805325376**

Status : **Answered**

Chosen Option : **1**



Q.19 The second central moment of the Binomial distribution $B\left(1, \frac{1}{2}\right)$ is:

- Ans**
- ☐ 1. $\frac{1}{8}$
 - ☒ 2. $\frac{1}{4}$
 - ☐ 3. 1
 - ☐ 4. $\frac{1}{2}$

Question ID : **6306801324606**

Option 1 ID : **6306805212708**

Option 2 ID : **6306805212707**

Option 3 ID : **6306805212705**

Option 4 ID : **6306805212706**

Status : **Answered**

Chosen Option : 1

Q.20 10–15 is the model class with 25 as its frequency. Also if the frequency of the class preceding and succeeding the model class is 10 and 15, respectively, then the value of mode is:

- Ans**
- ☐ 1. 12
 - ☒ 2. 13
 - ☐ 3. 10
 - ☐ 4. 15

Question ID : **6306801352817**

Option 1 ID : **6306805325433**

Option 2 ID : **6306805325432**

Option 3 ID : **6306805325430**

Option 4 ID : **6306805325431**

Status : **Answered**

Chosen Option : 2

Q.21 Which of the following is NOT true about ungrouped frequency distribution?

- Ans**
- ☐ 1. Frequency of an observation is the number of times it occurs
 - ☐ 2. Tally marks are used for finding frequencies
 - ☐ 3. Used for putting raw data in a condensed form
 - ☒ 4. Used when number of observations in data set is very large

Question ID : **6306801293776**

Option 1 ID : **6306805089259**

Option 2 ID : **6306805089258**

Option 3 ID : **6306805089257**

Option 4 ID : **6306805089260**

Status : **Answered**

Chosen Option : 2



Q.22 What does the third moment measure?

- Ans**
- ☐ 1. Variance
 - ☐ 2. Mean
 - ☒ 3. Skewness
 - ☐ 4. Kurtosis

Question ID : **6306801352830**

Option 1 ID : **6306805325483**

Option 2 ID : **6306805325482**

Option 3 ID : **6306805325484**

Option 4 ID : **6306805325485**

Status : **Answered**

Chosen Option : **3**

Q.23 For testing whether two independent Normal populations (with unknown and equal variances) have same mean, one uses:

- Ans**
- ☒ 1. t distribution
 - ☐ 2. Standard Normal Distribution
 - ☐ 3. Chi Square Distribution
 - ☐ 4. F distribution

Question ID : **6306801307918**

Option 1 ID : **6306805146477**

Option 2 ID : **6306805146475**

Option 3 ID : **6306805146476**

Option 4 ID : **6306805146478**

Status : **Answered**

Chosen Option : **3**

Q.24 The following data represents a time series.

Period : 1 2 3 4 5

Observed values : 150 140 160 170 180

Compute the first-order and second-order differences for period 3.

- Ans**
- ☒ 1. First-Order: 20, Second-Order: -30
 - ☐ 2. First-Order: -10, Second-Order: -10
 - ☐ 3. First-Order: -10, Second-Order: 20
 - ☐ 4. First-Order: 20, Second-Order: 10

Question ID : **6306801302739**

Option 1 ID : **6306805125869**

Option 2 ID : **6306805125872**

Option 3 ID : **6306805125870**

Option 4 ID : **6306805125871**

Status : **Answered**

Chosen Option : **3**



Q.25 The relative frequency of a class is:

- Ans
- ☐ 1. frequency of the class added to total frequency of all classes
 - ☐ 2. frequency of the class multiplied by total frequency of all classes
 - ☐ 3. frequency of the class subtracted from total frequency of all classes
 - ☒ 4. frequency of the class divided by total frequency of all classes

Question ID : 6306801293744

Option 1 ID : 6306805089132

Option 2 ID : 6306805089130

Option 3 ID : 6306805089131

Option 4 ID : 6306805089129

Status : Answered

Chosen Option : 4

Q.26 Let (X, Y) have the probability density function (pdf) as

$$f(x, y) = \begin{cases} c(x + 2y) & \text{if } 0 < x < 2, 0 < y < 1 \\ 0 & \text{otherwise} \end{cases}$$

The value of c is:

- Ans
- ☐ 1. $\frac{1}{2}$
 - ☐ 2. $\frac{3}{4}$
 - ☒ 3. $\frac{1}{4}$
 - ☐ 4. 1

Question ID : 6306801352883

Option 1 ID : 6306805325696

Option 2 ID : 6306805325697

Option 3 ID : 6306805325694

Option 4 ID : 6306805325695

Status : Answered

Chosen Option : 2

Q.27 A model being fitted is said to be adequate if the residual plot:

- Ans
- ☐ 1. is quadratic
 - ☐ 2. is non-linear
 - ☐ 3. is U-shaped
 - ☒ 4. displays random pattern

Question ID : 6306801312678

Option 1 ID : 6306805168031

Option 2 ID : 6306805168029

Option 3 ID : 6306805168028

Option 4 ID : 6306805168030

Status : Answered

Chosen Option : 1



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Q.28 For a normal distribution, the mean deviation is minimum when deviations are taken from:

- Ans**
- ☒ 1. mode
 - ☒ 2. median
 - ☒ 3. Geometric mean
 - ☒ 4. mean

Question ID : 6306801352822

Option 1 ID : 6306805325451

Option 2 ID : 6306805325452

Option 3 ID : 6306805325453

Option 4 ID : 6306805325450

Status : Answered

Chosen Option : 4

Q.29 Which definition of probability is NOT applicable if the events of a random experiment are not equally likely?

- Ans**
- ☒ 1. Empirical definition
 - ☒ 2. Axiomatic definition
 - ☒ 3. Classical definition
 - ☒ 4. Bayesian definition

Question ID : 6306801352844

Option 1 ID : 6306805325539

Option 2 ID : 6306805325540

Option 3 ID : 6306805325538

Option 4 ID : 6306805325541

Status : Answered

Chosen Option : 1

Q.30 If the joint distribution of two random variables X_1 and X_2 is

$$f(x_1, x_2) = \begin{cases} x_1 + x_2; & 0 < x_1, x_2 < 1 \\ 0, & \text{otherwise} \end{cases}, \text{ then } P(0 < X_2 < 0.5) \text{ is equal to:}$$

- Ans**
- ☒ 1. 3/8
 - ☒ 2. 1/2
 - ☒ 3. 3/4
 - ☒ 4. 1/4

Question ID : 6306801352807

Option 1 ID : 6306805325392

Option 2 ID : 6306805325390

Option 3 ID : 6306805325393

Option 4 ID : 6306805325391

Status : Not Answered

Chosen Option : --



Q.31 Find the probability that there may be 53 Sundays in a leap year.

- Ans
- ✓ 1. $\frac{2}{7}$
 - ✗ 2. $\frac{3}{7}$
 - ✗ 3. $\frac{5}{7}$
 - ✗ 4. $\frac{1}{7}$

Question ID : 6306801295015

Option 1 ID : 6306805094485

Option 2 ID : 6306805094487

Option 3 ID : 6306805094488

Option 4 ID : 6306805094486

Status : Answered

Chosen Option : 1

Q.32 For two random variables X and Y, how many lines of regression are possible?

- Ans
- ✗ 1. 1
 - ✗ 2. 3
 - ✓ 3. 2
 - ✗ 4. 0

Question ID : 6306801352864

Option 1 ID : 6306805325619

Option 2 ID : 6306805325621

Option 3 ID : 6306805325620

Option 4 ID : 6306805325618

Status : Answered

Chosen Option : 3

Q.33 Out of 100 numbers, 20 are 4's, 40 are 5's, 30 are 6's and the remaining are 7's. The arithmetic mean of the numbers is:

- Ans
- ✗ 1. 5.8
 - ✗ 2. 4.6
 - ✓ 3. 5.3
 - ✗ 4. 1.9

Question ID : 6306801352893

Option 1 ID : 6306805325736

Option 2 ID : 6306805325737

Option 3 ID : 6306805325735

Option 4 ID : 6306805325734

Status : Answered

Chosen Option : 3



Q.34 Level of significance is:

- Ans ☒ 1. Probability of Type I Error
☒ 2. $1 - \text{Probability of Type I Error}$
☒ 3. $1 - \text{Probability of Type II Error}$
☒ 4. Probability of Type II Error

Question ID : 6306801307996
 Option 1 ID : 6306805146788
 Option 2 ID : 6306805146790
 Option 3 ID : 6306805146789
 Option 4 ID : 6306805146787
 Status : Answered
 Chosen Option : 3

Q.35 Let X follow Poisson distribution with mean λ . If

$$P(X = 2) = \frac{1}{2} P(X = 3), \text{ then the value of } \lambda \text{ is:}$$

- Ans ☒ 1. 4
☒ 2. 6
☒ 3. 7
☒ 4. 2

Question ID : 6306801352881
 Option 1 ID : 6306805325686
 Option 2 ID : 6306805325688
 Option 3 ID : 6306805325687
 Option 4 ID : 6306805325689
 Status : Answered
 Chosen Option : 2

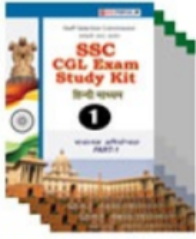
Q.36 Which of the following is the relative measure of skewness?

- Ans ☒ 1. β_2
☒ 2. β_1
☒ 3. $(X - \mu)/\sigma$
☒ 4. $\frac{Q_3 - 2Q_2 + Q_1}{Q_3 - Q_1}$

Question ID : 6306801352834
 Option 1 ID : 6306805325501
 Option 2 ID : 6306805325498
 Option 3 ID : 6306805325499
 Option 4 ID : 6306805325500
 Status : Answered
 Chosen Option : 4



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Q.37 The mean absolute deviation of 25, 30, 27, 40 and 35 is:

- Ans**
- ☐ 1. 3.58
 - ☒ 2. 4.88
 - ☐ 3. 5.28
 - ☐ 4. 4.67

Question ID : **6306801352842**

Option 1 ID : **6306805325530**

Option 2 ID : **6306805325532**

Option 3 ID : **6306805325533**

Option 4 ID : **6306805325531**

Status : **Answered**

Chosen Option : **3**

Q.38 Before using secondary data, one need NOT verify:

- Ans**
- ☐ 1. reliability of data
 - ☐ 2. suitability of data
 - ☒ 3. expenditure involved at time of collection of data
 - ☐ 4. adequacy of data

Question ID : **6306801293836**

Option 1 ID : **6306805089489**

Option 2 ID : **6306805089490**

Option 3 ID : **6306805089492**

Option 4 ID : **6306805089491**

Status : **Answered**

Chosen Option : **3**

Q.39 25 books are placed at random on a shelf. The probability that a particular pair of books shall be always together is:

- Ans**
- ☐ 1. $\frac{3}{25}$
 - ☒ 2. $\frac{2}{25}$
 - ☐ 3. $\frac{1}{25}$
 - ☐ 4. $\frac{5}{25}$

Question ID : **6306801352846**

Option 1 ID : **6306805325546**

Option 2 ID : **6306805325548**

Option 3 ID : **6306805325549**

Option 4 ID : **6306805325547**

Status : **Answered**

Chosen Option : **3**



Q.40 Scatter diagram for the following data shows _____.

X 1 2 3 4 5
Y 9 8 7 6 5

- Ans** ☒ 1. Negative Perfect Correlation
☐ 2. Perfect Positive Correlation
☐ 3. Zero Correlation
☐ 4. Positive Correlation

Question ID : 6306801313409

Option 1 ID : 6306805168390

Option 2 ID : 6306805168391

Option 3 ID : 6306805168389

Option 4 ID : 6306805168388

Status : Answered

Chosen Option : 1

Q.41 With usual notations, the 95% confidence limits for the difference of two proportions is:

Ans

- ☒ 1. $(p_1 - p_2) \pm 1.96 \sqrt{\frac{p_1 q_1}{n_1} + \frac{p_2 q_2}{n_2}}$
☐ 2. $(p_1 + p_2) \pm 1.96 \sqrt{\frac{p_1 q_1}{n_1} + \frac{p_2 q_2}{n_2}}$
☐ 3. $(p_1 + p_2) \pm 1.96 \sqrt{\frac{p_1 q_1}{n_1} - \frac{p_2 q_2}{n_2}}$
☐ 4. $(p_1 - p_2) \pm 1.96 \sqrt{\frac{p_1 q_1}{n_1} - \frac{p_2 q_2}{n_2}}$

Question ID : 6306801352880

Option 1 ID : 6306805325685

Option 2 ID : 6306805325682

Option 3 ID : 6306805325683

Option 4 ID : 6306805325684

Status : Answered

Chosen Option : 1

Q.42 Find the coefficient of skewness from the following information:

Mode = 11, median = 8, $Q_3 - Q_1 = 8$, $Q_3 + Q_1 = 22$.

- Ans** ☐ 1. 1/3
☐ 2. 1/4
☒ 3. 3/4
☐ 4. 1/5

Question ID : 6306801352829

Option 1 ID : 6306805325479

Option 2 ID : 6306805325480

Option 3 ID : 6306805325478

Option 4 ID : 6306805325481

Status : Answered

Chosen Option : 3

Q.43 On rolling of a die, the events E1 (getting an even number) and E2 (getting an odd number) are:

- Ans**
- ☒ 1. mutually exclusive
 - ☒ 2. exhaustive
 - ☒ 3. neither mutually exclusive nor exhaustive
 - ☒ 4. mutually exclusive and exhaustive

Question ID : **6306801352847**

Option 1 ID : **6306805325550**

Option 2 ID : **6306805325551**

Option 3 ID : **6306805325553**

Option 4 ID : **6306805325552**

Status : **Answered**

Chosen Option : **4**

Q.44 If $Y = \frac{x}{2} + 2$ and $X = \frac{y}{8} - 1$ are regression lines of Y on X and X on Y, then correlation coefficient between X and Y is equal to:

- Ans**
- ☒ 1. $\pm \frac{1}{4}$
 - ☒ 2. $\pm \frac{1}{6}$
 - ☒ 3. $\frac{1}{4}$
 - ☒ 4. $\frac{1}{6}$

Question ID : **6306801352942**

Option 1 ID : **6306805325933**

Option 2 ID : **6306805325932**

Option 3 ID : **6306805325931**

Option 4 ID : **6306805325930**

Status : **Answered**

Chosen Option : **3**

Q.45 The coefficient of kurtosis (β_2) of standard normal distribution is equal to:

- Ans**
- ☒ 1. -3
 - ☒ 2. 0
 - ☒ 3. 3
 - ☒ 4. 1

Question ID : **6306801352811**

Option 1 ID : **6306805325408**

Option 2 ID : **6306805325406**

Option 3 ID : **6306805325407**

Option 4 ID : **6306805325409**

Status : **Answered**

Chosen Option : **3**



Q.46 If a large sample of size n is taken from a normal population with mean μ and standard deviation σ , the 95% confidence interval for the unknown parameter μ is:

Ans

✓ 1. $\left(\bar{x} \pm 1.96 \frac{\sigma}{\sqrt{n}} \right)$

✗ 2. $\left(\bar{x}^2 \pm 1.96 \frac{\sigma}{\sqrt{n}} \right)$

✗ 3. $\left(\bar{x} \pm 1.96 \frac{\sigma^2}{\sqrt{n}} \right)$

✗ 4. $\left(\bar{x} \pm 1.96 \frac{\sigma^2}{n} \right)$

Question ID : **6306801352879**

Option 1 ID : **6306805325678**

Option 2 ID : **6306805325681**

Option 3 ID : **6306805325679**

Option 4 ID : **6306805325680**

Status : **Answered**

Chosen Option : **1**

Q.47 O-gives are NOT useful for locating:

Ans ✗ 1. percentiles

✗ 2. median

✗ 3. quartiles

✓ 4. mean

Question ID : **6306801294100**

Option 1 ID : **6306805090555**

Option 2 ID : **6306805090553**

Option 3 ID : **6306805090554**

Option 4 ID : **6306805090556**

Status : **Answered**

Chosen Option : **4**

Q.48 Which of the following index numbers is the geometric mean of Laspeyre's and Paasche's Index number?

Ans ✗ 1. Drobish-Bowley Index

✗ 2. Marshall-Edgeworth Index

✓ 3. Irving Fisher Index

✗ 4. Walsch Index

Question ID : **6306801352869**

Option 1 ID : **6306805325638**

Option 2 ID : **6306805325639**

Option 3 ID : **6306805325640**

Option 4 ID : **6306805325641**

Status : **Answered**

Chosen Option : **3**



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Q.49 Which component of a time series represents short-term fluctuations due to seasonal factors?

- Ans**
- ☒ 1. Seasonal component
 - ☐ 2. Irregular component
 - ☐ 3. Cyclical component
 - ☐ 4. Trend

Question ID : 6306801352952

Option 1 ID : 6306805325972

Option 2 ID : 6306805325973

Option 3 ID : 6306805325971

Option 4 ID : 6306805325970

Status : Answered

Chosen Option : 4

Q.50 Type I error occurs when:

- Ans**
- ☐ 1. a false null hypothesis is rejected
 - ☒ 2. a true null hypothesis is rejected
 - ☐ 3. a true null hypothesis is accepted
 - ☐ 4. a false null hypothesis is accepted

Question ID : 6306801352959

Option 1 ID : 6306805326000

Option 2 ID : 6306805325998

Option 3 ID : 6306805325999

Option 4 ID : 6306805326001

Status : Answered

Chosen Option : 3

Q.51 Which of the following statements is FALSE?

- Ans**
- ☐ 1. An alternative hypothesis is complementary to null hypothesis.
 - ☒ 2. The hypothesis for testing $\mu < \mu_0$ is two sided / two tailed.
 - ☐ 3. The null hypothesis $H_0: \mu = \mu_0$ can be tested against the alternative $H_1: \mu$ not equal to μ_0 .
 - ☐ 4. The hypothesis for testing $\mu > \mu_0$ is one sided / right tailed.

Question ID : 6306801308014

Option 1 ID : 6306805146863

Option 2 ID : 6306805146866

Option 3 ID : 6306805146864

Option 4 ID : 6306805146865

Status : Not Answered

Chosen Option : --



Q.52 The median of the normal distribution with mean and variance μ and σ^2 is:

- Ans**
- ☒ 1. σ
 - ☒ 2. $\mu/2$
 - ☒ 3. $\sigma/2$
 - ☒ 4. μ

Question ID : **6306801352839**

Option 1 ID : **6306805325519**

Option 2 ID : **6306805325520**

Option 3 ID : **6306805325521**

Option 4 ID : **6306805325518**

Status : **Answered**

Chosen Option : **4**

Q.53 When two judges rank only two individuals, then value of Spearman's rank correlation coefficient is:

- Ans**
- ☒ 1. -1 or 1
 - ☒ 2. between 0 and 1
 - ☒ 3. -1 or 0
 - ☒ 4. 0 or 1

Question ID : **6306801352939**

Option 1 ID : **6306805325920**

Option 2 ID : **6306805325921**

Option 3 ID : **6306805325918**

Option 4 ID : **6306805325919**

Status : **Answered**

Chosen Option : **1**

Q.54 The formula used for finding the simple aggregate index numbers is:

- Ans**
- ☒ 1. $\frac{\sum p_{0j}p_{ij}}{\sum p_{0j}} \times 100$
 - ☒ 2. $\frac{\sum p_{ij}}{\sum p_{0j}p_{ij}} \times 100$
 - ☒ 3. $\frac{\sum p_{ij}}{\sum p_{0j}} \times 100$
 - ☒ 4. $\frac{\sum p_{0j}}{\sum p_{ij}} \times 100$

Question ID : **6306801352868**

Option 1 ID : **6306805325636**

Option 2 ID : **6306805325637**

Option 3 ID : **6306805325634**

Option 4 ID : **6306805325635**

Status : **Answered**

Chosen Option : **3**



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Q.55 If S^2 is the sample variance of a sample of size n and s^2 is an unbiased estimator of population variance, then which of the following is true?

- Ans**
- ☒ 1. $n s^2 = (n - 1) S^2$
 - ☒ 2. $(n - 1) s^2 = n S^2$
 - ☒ 3. $(n + 1) s^2 = n S^2$
 - ☒ 4. $n s^2 = (n + 1) S^2$

Question ID : **6306801300047**

Option 1 ID : **6306805115059**

Option 2 ID : **6306805115060**

Option 3 ID : **6306805115062**

Option 4 ID : **6306805115061**

Status : **Answered**

Chosen Option : **2**

Q.56 For three random variables X_1 , X_2 and X_3 , correlation coefficients between pairs of random variables are $r_{12} = \sin^2 \theta$, $r_{13} = \cos \theta$ and $r_{23} = \sin \theta$.

The partial correlation coefficient $r_{12.3}$ is given by:

- Ans**
- ☒ 1. $\tan \theta - 1$
 - ☒ 2. $\sin \theta - 1$
 - ☒ 3. $\cot \theta - 1$
 - ☒ 4. $\cos \theta - 1$

Question ID : **6306801352938**

Option 1 ID : **6306805325916**

Option 2 ID : **6306805325914**

Option 3 ID : **6306805325917**

Option 4 ID : **6306805325915**

Status : **Answered**

Chosen Option : **1**

Q.57 Which of the following statements is NOT true about a critical region w ?

- Ans**
- ☒ 1. Known as region of acceptance
 - ☒ 2. Alternative hypothesis accepted if set points lie in w
 - ☒ 3. Null hypothesis rejected if set points lie in w
 - ☒ 4. Known as region of rejection

Question ID : **6306801307936**

Option 1 ID : **6306805146548**

Option 2 ID : **6306805146550**

Option 3 ID : **6306805146549**

Option 4 ID : **6306805146547**

Status : **Answered**

Chosen Option : **1**



Q.58 For the set of numbers 2, 3, 7, 8 and 10, the second order moment about the origin 4 is:

- Ans** ☒ 1. 13.2
☒ 2. 12.6
☒ 3. 15
☒ 4. 10.5

Question ID : **6306801352906**

Option 1 ID : **6306805325789**

Option 2 ID : **6306805325788**

Option 3 ID : **6306805325786**

Option 4 ID : **6306805325787**

Status : **Answered**

Chosen Option : **1**

Q.59 In a data set, let the first and third quartiles be 268.25 and 290.75, respectively. The quartile deviation is equal to:

- Ans** ☒ 1. 12
☒ 2. 11.25
☒ 3. 18.5
☒ 4. 15

Question ID : **6306801352899**

Option 1 ID : **6306805325758**

Option 2 ID : **6306805325760**

Option 3 ID : **6306805325759**

Option 4 ID : **6306805325761**

Status : **Answered**

Chosen Option : **2**

Q.60 It has been found that 2% of the tools produced by a certain machine are defective. What is the probability that in a shipment of 400 such tools, 3% or more will be defective? (Probability that the normal variate lies between 0 and 1.43 is 0.4236.)

- Ans** ☒ 1. 0.0764
☒ 2. 0.50
☒ 3. 0.4236
☒ 4. 1.43

Question ID : **6306801300075**

Option 1 ID : **6306805115174**

Option 2 ID : **6306805115171**

Option 3 ID : **6306805115172**

Option 4 ID : **6306805115173**

Status : **Answered**

Chosen Option : **1**



Q.61 If the values of Bowley's coefficient of skewness, third quartile and first quartile are 0.5, 10 and 5, respectively, then the value of the second quartile is:

- Ans**
- ☐ 1. $6/4$
 - ☐ 2. $7/3$
 - ☐ 3. $3/4$
 - ☒ 4. $25/4$

Question ID : **6306801352819**

Option 1 ID : **6306805325440**

Option 2 ID : **6306805325441**

Option 3 ID : **6306805325438**

Option 4 ID : **6306805325439**

Status : **Answered**

Chosen Option : **4**

Q.62 Which of the following components of time series reflect the general tendency of the data to increase or decrease during a long period of time?

- Ans**
- ☒ 1. Trend
 - ☐ 2. Seasonal
 - ☐ 3. Irregular
 - ☐ 4. Cyclical

Question ID : **6306801352871**

Option 1 ID : **6306805325646**

Option 2 ID : **6306805325649**

Option 3 ID : **6306805325648**

Option 4 ID : **6306805325647**

Status : **Answered**

Chosen Option : **4**

Q.63 In a completely randomized design, with 4 treatments replicated 5 times, the following information is obtained.

$SST=26234.95$, $SSE=11558.80$, the F_{cal} is equal to:

- Ans**
- ☐ 1. 20
 - ☒ 2. 12.11
 - ☐ 3. 14.89
 - ☐ 4. 15.6

Question ID : **6306801352858**

Option 1 ID : **6306805325597**

Option 2 ID : **6306805325594**

Option 3 ID : **6306805325595**

Option 4 ID : **6306805325596**

Status : **Answered**

Chosen Option : **3**



Q.64 If a fair six-sided die is tossed twice and the tosses are independent, then probability of getting a 5 on both tosses is:

- Ans**
- ☐ 1. $1/3$
 - ☒ 2. $1/36$
 - ☐ 3. $1/6$
 - ☐ 4. $1/12$

Question ID : 6306801352927

Option 1 ID : 6306805325870

Option 2 ID : 6306805325873

Option 3 ID : 6306805325871

Option 4 ID : 6306805325872

Status : Answered

Chosen Option : 2

Q.65 The primary purpose of constructing index numbers is to:

- Ans**
- ☒ 1. compare relative changes in variables over time
 - ☐ 2. assess purchasing power of money
 - ☐ 3. calculate statistical variances
 - ☐ 4. estimate population parameters

Question ID : 6306801352946

Option 1 ID : 6306805325947

Option 2 ID : 6306805325949

Option 3 ID : 6306805325946

Option 4 ID : 6306805325948

Status : Answered

Chosen Option : 1

Q.66 Half of the difference between the 75th percentile and 25th percentile is called:

- Ans**
- ☐ 1. coefficient of variation
 - ☐ 2. coefficient of skewness
 - ☐ 3. range
 - ☒ 4. quartile deviation

Question ID : 6306801352821

Option 1 ID : 6306805325448

Option 2 ID : 6306805325449

Option 3 ID : 6306805325446

Option 4 ID : 6306805325447

Status : Answered

Chosen Option : 4



Q.67 Data sets with high kurtosis:

- Ans
- ☒ 1. have no outliers
 - ☒ 2. will have their distributions symmetric
 - ☒ 3. tend to have heavy outliers
 - ☒ 4. tend to have light outliers

Question ID : 6306801352837

Option 1 ID : 6306805325512

Option 2 ID : 6306805325513

Option 3 ID : 6306805325510

Option 4 ID : 6306805325511

Status : Answered

Chosen Option : 3

Q.68 Let a continuous random variable X have pdf

$$f(x) = \begin{cases} -0.75x^2 + 1.5x & \text{for } 0 < x < 2 \\ 0 & \text{otherwise} \end{cases}$$

The mode of X is:

- Ans
- ☒ 1. 2
 - ☒ 2. 1.8
 - ☒ 3. 2.6
 - ☒ 4. 1

Question ID : 6306801352895

Option 1 ID : 6306805325744

Option 2 ID : 6306805325743

Option 3 ID : 6306805325745

Option 4 ID : 6306805325742

Status : Answered

Chosen Option : 2

Q.69 At what value of $R_{1,23}$ are all regression residuals zero?

- Ans
- ☒ 1. -1
 - ☒ 2. 1
 - ☒ 3. Both 1 and -1
 - ☒ 4. 0

Question ID : 6306801352866

Option 1 ID : 6306805325628

Option 2 ID : 6306805325626

Option 3 ID : 6306805325629

Option 4 ID : 6306805325627

Status : Answered

Chosen Option : 3



Q.70 If the standard deviation of a population is 100, then based on a sample of size 100, the standard deviation of sample mean is equal to:

- Ans** ☒ 1. 10
☒ 2. 80
☒ 3. 100
☒ 4. 50

Question ID : **6306801352824**

Option 1 ID : **6306805325461**

Option 2 ID : **6306805325459**

Option 3 ID : **6306805325458**

Option 4 ID : **6306805325460**

Status : **Answered**

Chosen Option : **3**

Q.71 If for the given distribution, the arithmetic mean is 9.41, then which of the following values will replace the question mark (?) in the distribution?

X 5 8 9 ? 13
f 8 20 30 25 17

- Ans** ☒ 1. 9
☒ 2. 10
☒ 3. 11
☒ 4. 8

Question ID : **6306801292188**

Option 1 ID : **6306805112393**

Option 2 ID : **6306805112394**

Option 3 ID : **6306805112395**

Option 4 ID : **6306805112392**

Status : **Answered**

Chosen Option : **2**

Q.72 For a frequency polygon:

- Ans** ☒ 1. frequencies are plotted against class boundaries
☒ 2. frequencies are plotted against class limits
☒ 3. class intervals are of equal width
☒ 4. cumulative frequencies are plotted against class limits

Question ID : **6306801294086**

Option 1 ID : **6306805090498**

Option 2 ID : **6306805090496**

Option 3 ID : **6306805090495**

Option 4 ID : **6306805090497**

Status : **Answered**

Chosen Option : **2**



Q.73 The first four moments of a distribution about $X=2$ are $-2, 12, -20$ and 100 , then μ_3 equals:

- Ans** ☒ 1. 26
☒ 2. 34
☒ 3. 38
☒ 4. 32

Question ID : **6306801352833**
 Option 1 ID : **6306805325496**
 Option 2 ID : **6306805325495**
 Option 3 ID : **6306805325497**
 Option 4 ID : **6306805325494**
 Status : **Not Answered**
 Chosen Option : --

Q.74 Die I has 4 red and 2 white faces and die II has 2 red and 4 white faces. A coin is flipped once. If head appears, the game continues by flipping die I, and if tail appears, then die II is used. The probability of getting a red face at any throw is:

- Ans** ☒ 1. $1/4$
☒ 2. $1/8$
☒ 3. $1/3$
☒ 4. $1/2$

Question ID : **6306801352928**
 Option 1 ID : **6306805325875**
 Option 2 ID : **6306805325877**
 Option 3 ID : **6306805325876**
 Option 4 ID : **6306805325874**
 Status : **Answered**
 Chosen Option : 4

Q.75 The mean and variance of a Binomial distribution are 8 and 4 respectively, then the value of n is:

- Ans** ☒ 1. 32
☒ 2. 64
☒ 3. 8
☒ 4. 16

Question ID : **6306801352806**
 Option 1 ID : **6306805325386**
 Option 2 ID : **6306805325388**
 Option 3 ID : **6306805325389**
 Option 4 ID : **6306805325387**
 Status : **Answered**
 Chosen Option : 4

Q.76 Let X follows normal distribution with mean μ and median $\tilde{\mu}$, then $P(\mu < X < \tilde{\mu})$ is equal to:

- Ans** ☒ 1. 0.50
☒ 2. 0
☒ 3. 0.10
☒ 4. 0.25

Question ID : **6306801352812**
 Option 1 ID : **6306805325410**
 Option 2 ID : **6306805325413**
 Option 3 ID : **6306805325412**
 Option 4 ID : **6306805325411**
 Status : **Answered**
 Chosen Option : 1



Q.77 For a completely randomised design with k treatments, let

x_{ij} = i^{th} observation corresponding to j^{th} treatment,

$i = 1, 2, \dots, n_j, \quad j = 1, 2, \dots, k$

T = total of all observations,

$\bar{x}_j$ = mean of j^{th} treatment,

$\bar{x} = \frac{T}{N}$ where $N = \sum_{j=1}^k n_j$.

The formula for finding the sum of squares due to error (SSE) is:

- Ans**
- ☒ 1. $\sum_{j=1}^k (\bar{x}_j - \bar{x})$
 - ☒ 2. $\sum_{j=1}^k n_j (\bar{x}_j - \bar{x})^2$
 - ☒ 3. $\sum_{j=1}^k \sum_{i=1}^{n_j} (x_{ij} - \bar{x}_j)^2$
 - ☒ 4. $\sum_{j=1}^k \sum_{i=1}^{n_j} (x_{ij} - \bar{x})^2$

Question ID : 6306801352935

Option 1 ID : 6306805325902

Option 2 ID : 6306805325903

Option 3 ID : 6306805325905

Option 4 ID : 6306805325904

Status : Answered

Chosen Option : 4

Q.78 If (X, Y) has a bivariate normal distribution, then X, Y are independent if and only if X, Y are:

- Ans**
- ☒ 1. $\rho(X, Y) \neq 0$
 - ☒ 2. Uncorrelated
 - ☒ 3. Correlated
 - ☒ 4. $\text{cov}(X, Y) \neq 0$

Question ID : 6306801324604

Option 1 ID : 6306805212700

Option 2 ID : 6306805212697

Option 3 ID : 6306805212698

Option 4 ID : 6306805212699

Status : Answered

Chosen Option : 4



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Q.79 What is the geometric mean of $\frac{1}{4}$, $\frac{1}{8}$ and $\frac{1}{16}$?

- Ans
- ☐ 1. 16
 - ☐ 2. 8
 - ☐ 3. 4
 - ☒ 4. $\frac{1}{8}$

Question ID : 6306801299443

Option 1 ID : 6306805112620

Option 2 ID : 6306805112618

Option 3 ID : 6306805112621

Option 4 ID : 6306805112619

Status : Answered

Chosen Option : 4

Q.80 Let $X_1, X_2, \dots, X_{10}$ be 10 independent and identically distributed (i.i.d) random variables taking the values 0, 1 with corresponding probabilities q, p . Then $X = X_1 + X_2 + \dots + X_{10}$ is/has:

- Ans
- ☒ 1. a binomial variate
 - ☐ 2. Poisson distribution
 - ☐ 3. a normal variate
 - ☐ 4. a geometric variate

Question ID : 6306801299862

Option 1 ID : 6306805114282

Option 2 ID : 6306805114280

Option 3 ID : 6306805114279

Option 4 ID : 6306805114281

Status : Answered

Chosen Option : 2

Q.81 In using one way analysis of variance for testing whether treatments are equally effective for a certain experimental data, if $F_{\text{calculated}} = 12.1$ and $F_{\text{tabulated}} = 3.06$, then:

- Ans
- ☒ 1. null hypothesis is rejected
 - ☐ 2. both null hypothesis and alternative hypothesis are accepted
 - ☐ 3. both null hypothesis and alternative hypothesis are rejected
 - ☐ 4. null hypothesis is accepted

Question ID : 6306801352855

Option 1 ID : 6306805325582

Option 2 ID : 6306805325584

Option 3 ID : 6306805325585

Option 4 ID : 6306805325583

Status : Answered

Chosen Option : 1



Q.82 The mean and variance of a binomially distributed random variable X are 4 and 2, respectively. $P(X = 2)$ is equal to:

Ans

- ☐ 1. $\frac{1}{2^8}$
- ☒ 2. $\frac{7}{2^6}$
- ☐ 3. $\frac{1}{2^6}$
- ☐ 4. $\frac{7}{2^8}$

Question ID : 6306801352885

Option 1 ID : 6306805325704

Option 2 ID : 6306805325702

Option 3 ID : 6306805325705

Option 4 ID : 6306805325703

Status : Answered

Chosen Option : 1

Q.83 As the sample size increases, empirical probability:

Ans

- ☐ 1. becomes less accurate
- ☐ 2. becomes more subjective
- ☐ 3. decreases
- ☒ 4. approaches the true probability of an event

Question ID : 6306801352925

Option 1 ID : 6306805325862

Option 2 ID : 6306805325863

Option 3 ID : 6306805325865

Option 4 ID : 6306805325864

Status : Answered

Chosen Option : 4

Q.84 Which of the following is NOT true about collecting data through structured interviews?

Ans

- ☐ 1. They involve the use of highly standardised techniques of recording.
- ☐ 2. The interviewer follows a rigid laid down procedure.
- ☐ 3. They involve the use of a set of predetermined questions.
- ☒ 4. The sequence of asked questions can be changed.

Question ID : 6306801294132

Option 1 ID : 6306805090694

Option 2 ID : 6306805090695

Option 3 ID : 6306805090693

Option 4 ID : 6306805090696

Status : Answered

Chosen Option : 2



Q.85 Which of the following is NOT considered as a property of a good estimator?

- Ans**
- ☒ 1. Consistency
 - ☒ 2. Unbiasedness
 - ☒ 3. Efficiency
 - ☒ 4. Correlation

Question ID : **6306801352878**

Option 1 ID : **6306805325675**

Option 2 ID : **6306805325674**

Option 3 ID : **6306805325676**

Option 4 ID : **6306805325677**

Status : **Answered**

Chosen Option : **4**

Q.86 Suppose a sample of size 36 is drawn from a population with mean 2 and variance 25 using simple random sampling with replacement. The standard error of $\bar{x}$ is:

- Ans**
- ☒ 1. $\frac{3}{5}$
 - ☒ 2. $\frac{5}{8}$
 - ☒ 3. $\frac{5}{6}$
 - ☒ 4. 1

Question ID : **6306801352955**

Option 1 ID : **6306805325984**

Option 2 ID : **6306805325982**

Option 3 ID : **6306805325983**

Option 4 ID : **6306805325985**

Status : **Answered**

Chosen Option : **3**

Q.87 'p' is the probability that a man aged x years will die in a year

aged x, A_1 will die in a year and will be the first to die.

- Ans**
- ☒ 1. $\frac{1}{n} [(1-p)^n]$
 - ☒ 2. $\frac{1}{n} [1 - (1-p)^n]$
 - ☒ 3. $\frac{1}{n} [(1-p)^{n-1}]$
 - ☒ 4. $\frac{1}{n} [(1-p)]$

Question ID : **6306801292667**

Option 1 ID : **6306805084839**

Option 2 ID : **6306805084842**

Option 3 ID : **6306805084840**

Option 4 ID : **6306805084841**

Status : **Answered**

Chosen Option : **2**



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Q.88 In a one-way ANOVA, which of the following would indicate a violation of the normality assumption?

- Ans**
- ☒ 1. Equal variances across groups
 - ☒ 2. Residuals showing a skewed distribution
 - ☒ 3. Residuals randomly distributed
 - ☒ 4. Independent observations

Question ID : 6306801294764

Option 1 ID : 6306805093391

Option 2 ID : 6306805093390

Option 3 ID : 6306805093389

Option 4 ID : 6306805093392

Status : Answered

Chosen Option : 1

Q.89 What is the main assumption of the ratio-to-moving-averages method?

- Ans**
- ☒ 1. Seasonal effects are multiplicative.
 - ☒ 2. Random components dominate the time series.
 - ☒ 3. The trend is constant over time.
 - ☒ 4. The seasonal component is additive.

Question ID : 6306801302293

Option 1 ID : 6306805124079

Option 2 ID : 6306805124080

Option 3 ID : 6306805124078

Option 4 ID : 6306805124077

Status : Answered

Chosen Option : 4

Q.90 For an experiment with sample space S , the events A_i , $i = 1, 2, 3, \dots$ are mutually exclusive and exhaustive if:

- Ans**
- ☒ 1. $\bigcup_i A_i = S$
 - ☒ 2. $A_i \cap A_j = \emptyset$ for $i \neq j$
 - ☒ 3. $\bigcup_i A_i = S$ and $A_i \cup A_j = \emptyset$ for $i \neq j$
 - ☒ 4. $\bigcup_i A_i = S$ and $A_i \cap A_j = \emptyset$ for $i \neq j$

Question ID : 6306801352926

Option 1 ID : 6306805325867

Option 2 ID : 6306805325868

Option 3 ID : 6306805325866

Option 4 ID : 6306805325869

Status : Answered

Chosen Option : 4



Q.91 Which of the following is NOT a secondary source of data?

- Ans**
- ☒ 1. Biography
 - ☒ 2. Research Journals
 - ☒ 3. Autobiography
 - ☒ 4. Newspaper

Question ID : 6306801352813

Option 1 ID : 6306805325415

Option 2 ID : 6306805325417

Option 3 ID : 6306805325414

Option 4 ID : 6306805325416

Status : Answered

Chosen Option : 2

Q.92 The points of inflection of a normal distribution $N(5, 1)$ that exist at x is equal to:

- Ans**
- ☒ 1. 2, 8
 - ☒ 2. 5, 1
 - ☒ 3. 1, 9
 - ☒ 4. 4, 6

Question ID : 6306801352804

Option 1 ID : 6306805325379

Option 2 ID : 6306805325381

Option 3 ID : 6306805325380

Option 4 ID : 6306805325378

Status : Answered

Chosen Option : 4

Q.93 From a population of a large number of workers with a standard deviation 5, a sample is drawn and the standard error is found to be 0.5. What is the sample size?

- Ans**
- ☒ 1. 50
 - ☒ 2. 1000
 - ☒ 3. 10
 - ☒ 4. 100

Question ID : 6306801297901

Option 1 ID : 6306805106220

Option 2 ID : 6306805106223

Option 3 ID : 6306805106221

Option 4 ID : 6306805106222

Status : Answered

Chosen Option : 2



Q.94 If the arithmetic mean is 25 and geometric mean is 15, then the value of the Harmonic mean is equal to:

- Ans**
- ☒ 1. 15
 - ☒ 2. 9
 - ☒ 3. 12
 - ☒ 4. 10

Question ID : **6306801352818**
 Option 1 ID : **6306805325436**
 Option 2 ID : **6306805325437**
 Option 3 ID : **6306805325435**
 Option 4 ID : **6306805325434**
 Status : **Answered**
 Chosen Option : 2

Q.95 If $\bar{x}$ is the mean of a sample from $N(\mu, 1)$, then the maximum

- Ans**
- ☒ 1. $n \bar{x}^2$
 - ☒ 2. $\bar{x}^2 + \frac{1}{n}$
 - ☒ 3. $\bar{x}^2 + 1$
 - ☒ 4. $\bar{x}^2$

Question ID : **6306801300178**
 Option 1 ID : **6306805115576**
 Option 2 ID : **6306805115577**
 Option 3 ID : **6306805115578**
 Option 4 ID : **6306805115575**
 Status : **Not Answered**
 Chosen Option : --

Q.96 Which of the following is NOT a good characteristic of a questionnaire?

- Ans**
- ☒ 1. Questions should proceed in logical sequence from easy to more difficult.
 - ☒ 2. Technical terms and vague expressions should be avoided.
 - ☒ 3. Personal and intimate questions should be put in the beginning.
 - ☒ 4. Questionnaire should be comparatively short and simple.

Question ID : **6306801294133**
 Option 1 ID : **6306805090698**
 Option 2 ID : **6306805090700**
 Option 3 ID : **6306805090699**
 Option 4 ID : **6306805090697**
 Status : **Answered**
 Chosen Option : 3

Q.97 The coefficient of variation and standard deviation for a dataset are 23 and 11, then the mean is approximately equal to:

- Ans**
- ☒ 1. 23.876
 - ☒ 2. 33.564
 - ☒ 3. 45.825
 - ☒ 4. 47.826

Question ID : **6306801352827**
 Option 1 ID : **6306805325473**
 Option 2 ID : **6306805325470**
 Option 3 ID : **6306805325472**
 Option 4 ID : **6306805325471**
 Status : **Answered**
 Chosen Option : 4

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Q.98 Let N be the size of a population and n be the size of the sample. Then the efficiency of SRSWOR with respect to SRSWR is:

- Ans
- ☒ 1. $\frac{N-1}{N(n-1)}$
 - ☒ 2. $\frac{N-n}{N-1}$
 - ☒ 3. $\frac{n-1}{N-1}$
 - ☒ 4. $\frac{N-1}{N-n}$

Question ID : 6306801300169

Option 1 ID : 6306805115540

Option 2 ID : 6306805115539

Option 3 ID : 6306805115541

Option 4 ID : 6306805115542

Status : Answered

Chosen Option : 2

Q.99 Karl Pearson's correlation coefficient is also called:

- Ans
- ☒ 1. Product moment correlation coefficient
 - ☒ 2. Likelihood coefficient
 - ☒ 3. Spearman's correlation coefficient
 - ☒ 4. Simplex correlation coefficient

Question ID : 6306801352860

Option 1 ID : 6306805325603

Option 2 ID : 6306805325604

Option 3 ID : 6306805325605

Option 4 ID : 6306805325602

Status : Answered

Chosen Option : 3

Q.100 Usually the formula to determine the number of classes is given by:

- Ans
- ☒ 1. $2 + 3.322 \times \log_{10} N$
 - ☒ 2. $3 + 3.322 \times \log_{10} N$
 - ☒ 3. $1 + 3.322 \times \log_{10} N$
 - ☒ 4. None of the above

Question ID : 6306801352841

Option 1 ID : 6306805325527

Option 2 ID : 6306805325528

Option 3 ID : 6306805325526

Option 4 ID : 6306805325529

Status : Answered

Chosen Option : 2

