

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
EMAIL: hadirajputofficial@gmail.com
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(Final Term Past Paper)

MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Correct answer solved by hadi
Cell No.03228043306
Email: hadirajputofficial@gmail.com

Answer (Please select your correct option)

☐

Mutually exclusive

☒

Equally likely



correct answer
solved by hadi

Correct answer solved by HADI

☐

Not mutually exclusive

☐

Exhaustive

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

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

Correct answer solved by hadi

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Answer (Please select your correct option)

☐

Mutually exclusive

☒

Equally likely



correct answer
solved by hadi

☐

Not mutually exclusive

☐

Exhaustive

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Start Time: 0:48 AM

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

An expected value of a random variable is equal to:

Answer (Please select your correct option)

☐ Variance

☐ Mean

☐ Standard deviation

☐ Covariance

correct answer
solved by hadi

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Start Time: 9:48 AM

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

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Answer (Please select your correct option)

☐

1

☐

∞

☐

$-\infty$

☐

0



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The sum of deviations is zero, when deviations are taken from:

Answer (Please select your correct option)

☐

Mean



correct answer
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☐

Median

☐

Mode

☐

H.M

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The distribution function $F(x)$ is equal to

Answer (Please select your correct option)

☐ $P(X = x)$

☐ $P(X \leq x)$

☐ $P(X \geq x)$

☐ $P(X > x)$

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correct answer
solved by hadi

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In a one-way ANOVA:

Answer (Please select your correct option)

☐ The interaction term has $(c - 1)(n - 1)$ degrees of freedom

☐ An interaction term is given

☐ An interaction effect can be tested

☐ There is no interaction term

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The degrees of freedom for a t-test with sample size 'n' is:

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Answer (Please select your correct option)

☐ n-1



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☐ n+1

☐ n-2

☐ n+2

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Rumour has reached the Trading Standards Officer that the manufacturer ABC is deliberately underfilling his cartons of orange juice. It is decided that a sample should be taken to check this claim. The stated contents on the carton are 100 ml on the average, then the null hypothesis is:

Answer (Please select your correct option)

☒ $H_0: \mu = 100$



correct answer
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☐ $H_0: \mu > 100$

☐ $H_0: \mu < 100$

☐ $H_0: \mu \neq 100$

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

Answer (Please select your correct option)

☐ 0

☐ 1

☒ c

☐ $-c$



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The combined distribution of more than two random variables is:

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Answer (Please select your correct option)

☐ Univariate distribution

☒ Joint distribution

☐ Marginal distribution

☐ Bivariate distribution



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

Answer (Please select your correct option)

☐ χ^2 -distribution.

☐ T-distribution.

☐ Z-distribution.

☐ F-distribution.



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In normal distribution $\beta_2 = \dots\dots\dots$:

Answer (Please select your correct option)

☐

1

☐

2

☒

3

☐

0



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In normal distribution, the quartile deviation Q.D =

Answer (Please select your correct option)

☐ 0.5σ

☐ 0.75σ

☐ 0.7979σ

☐ 0.6745σ



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In a symmetrical distribution, the coefficient of skewness is equal to :

Answer (Please select your correct option)

☐

-1

☐

+1

☒

0



☐

2

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correct answer

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The average which is defined as the reciprocal of the arithmetic mean of the reciprocals of the values is called:

Answer (Please select your correct option)

☐ Geometric Mean

☒ Harmonic Mean

☐ Mode

☐ Median



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Which measure of dispersion is used to compare the variation of two data sets?

Answer (Please select your correct option)

Coefficient of variation



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Coefficient of comparison

Mean deviation

Standard deviation

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If S.D(X) = 5 then S.D($\frac{2X+5}{2}$) = _____

Answer (Please select your correct option)

☐ 5

☐ 10

☐ 15

☐ 7.5



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The deviation of a distribution from symmetry is called:

Answer (Please select your correct option)

- ☐ Kurtosis
- ☒ Skewness 
- ☐ Dispersion
- ☐ Flatness
- correct answer solved by hadi Correct answer solved by HADI

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The conditional probability function $f(x|1) =$ _____

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Answer (Please select your correct option)

☐ $f(1,1)$

☐ $f(x,1)$

☐ $\frac{f(x,1)}{h(1)}$



☐ $\frac{f(x,1)}{h(x)}$

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Which one is the correct formula to find the desired sample size?

Answer (Please select your correct option)

☐ $n = \left(\frac{Z_{\alpha/2} \cdot \sigma}{e} \right)^2$



correct answer
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☐ $n = \left(\frac{Z_{\alpha/2} \cdot \sqrt{\sigma}}{e} \right)^2$

☐ $n = \left(\frac{Z_{\alpha/2} \cdot \bar{X}}{e} \right)^2$

☐ $n = \frac{Z_{\alpha/2} \cdot \sigma}{e}$

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A deserving player is not selected in the team is an example of:

Answer (Please select your correct option)

☐ Type I error

☒ Type II error

☐ Correct decision

☐ No information regarding this



correct answer
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Correct answer solved by HADI

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A judge can acquit a guilty person is the example of:

Answer (Please select your correct option)

☐ Type I error

☐ Type II error

☒ Correct decision

☐ No information regarding this



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by concept

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Ideally, the width of confidence interval should be:

Answer (Please select your correct option)

☐ 0



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☐ 1

☐ 99

☐ 100

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If the sampling distribution of $\bar{X}$ is normal, we would expect 99% of the sample means to be within the interval:

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Answer (Please select your correct option)

☐ $\mu_x \pm 2\sigma_x$

☐ $\mu_x \pm 1.96\sigma_x$

☒ $\mu_x \pm 2.58\sigma_x$



☐ $\mu_x \pm \sigma_x$

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If mean of χ^2 distribution is k then variance will be:

Answer (Please select your correct option)

☐ k^2

☒ $2k$

☐ $1/k$

☐ k

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Mean of the F-distribution is possible only, when

Answer (Please select your correct option)

☐ $v_1 > 2$

☒ $v_2 > 2$

☐ $v_1 < 2$

☐ $v_2 < 2$

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In Statistics, we have MSE which is abbreviation of:

Answer (Please select your correct option)

☐ Mean square error



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☐ Measured square error

☐ Medical screening exam

☐ Major sampling error

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What is the graphical shape of the chi-square distribution?

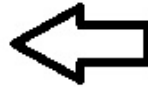
Answer (Please select your correct option)

☐ Positively skewed

☐ Negatively skewed

☐ Uniformly distributed

☐ Normally distributed



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As the degree of freedom increases, the t-distribution tends to coincide with:

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Answer (Please select your correct option)

☐ Binomial distribution

☐ Uniform distribution

☐ Hypergeometric distribution

☐ Normal distribution



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

Answer (Please select your correct option)

☐ $E(XY)$

☒ $E(X) \cdot E(Y)$

☐ $X \cdot E(Y)$

☐ $Y \cdot E(X)$



correct answer
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Start Time: 9:48 AM

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What are the number of ways in which four books can be arranged on a shelf?

Answer (Please select your correct option)

☐ 4

☐ 6

☐ 12

☐ 24



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

Answer (Please select your correct option)

☐ x & n

☐ x & p

☒ n & p

☐ x, n & p



correct answer
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Email: hadi.raiputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Hypergeometric probability distribution has :

Answer (Please select your correct option)

- ☐ (n, k) parameter
- ☐ (N) parameter
- ☐ (N, n, N-k) parameter
- ☐ (N, n, k) parameter



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The variance of the hypergeometric probability distribution is:

Answer (Please select your correct option)

☐ $\sigma^2 = n \frac{k}{N}$

☒ $\sigma^2 = n \frac{k}{N} \frac{N-k}{N} \frac{N-n}{N-1},$

☐ $\sigma^2 = npq$

☐ $\sigma^2 = N \frac{n}{K}$



correct answer
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Start Time: 9:48 AM

Email: hadi@bitoutofficial@gmail.com | WhatsApp: 0308-7122822 (Team Hadi Lahore)

When $f(x)$ is continuous probability function for $1 < X < 5$, then $P(X < 1)$ is:

Answer (Please select your correct option)

☐ 0



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but check

☐ 0.25

☐ 0.5

☐ 1

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For any two estimators T_1 and T_2 , if $\text{VAR}(T_1) < \text{VAR}(T_2)$, then T_1 is:

Answer (Please select your correct option)

☐ Unbiased

☐ Sufficient

☒ Efficient

☐ Consistent



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If an estimator gets closer to the population parameter by increasing sample size then it is known as:

check to the book

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Answer (Please select your correct option)

☐ Consistent estimator

☐ Sufficient estimator

☐ Efficient estimator

☐ Unbiased estimator

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Start Time: 9:48 AM

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Which of the following comes first to make frequency distribution.

Answer (Please select your correct option)

☐ Number of Groups

☐ Class interval

☒ Range

☐ Tally marks



correct answer
solved by hadi

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Start Time: 9:48 AM

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

What curve shape would you expect for the distribution of death rates of population of all age groups?

Answer (Please select your correct option)

☐ Symmetrical curve

☐ Skewed to the right

☐ Skewed to the left

☐ U shape curve



correct answer
solved by ha

Correct answer solved by hadi

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Which one is the measure of central tendency:

Answer (Please select your correct option)

☐ Variation of the distribution

☒ Average of the distribution

☐ Scatterness of the distribution

☐ Dispersion of the distribution



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What does quartile deviation measure in a distribution?

Answer (Please [click here](#) to Add Answer)

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In a random sample of 1000 women in a locality, 224 women said that they use Aerial washing powder. What is the point estimator and point estimate of the proportion of the women who use Aerial washing powder?

Answer (Please [click here](#) to Add Answer)



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What is the impact of level of confidence $(1-\alpha)$ on the value of $Z_{\alpha/2}$?

Answer (Please [click here](#) to Add Answer)



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Formulate the hypothesis in case of goodness of fit test.

Answer (Please [click here](#) to Add Answer)



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Why the median is suitable average for the below data set? Explain.

Monthly income (in rupees)	No. of workers
Less than 2000/-	100
2000/-to 2999/-	300

Answer (Please [click here](#) to Add Answer)

Normal Arial 12 B I U

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(in rupees)	
Less than 2000/-	100
2000/- to 2999/-	300
3000/- to 3999/-	500
4000/- to 4999/-	250
5000/- and above	50

Answer (Please [click here](#) to Add Answer)



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If Z is a standard normal random variable with mean 0 and variance 1, then find the Lower quartile.

Answer (Please [click here](#) to Add Answer)

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Write down critical region for the following hypothesis at 5% level of significance.

$$H_0: \mu = 75$$

$$H_1: \mu < 75$$

Answer (Please [click here](#) to Add Answer)



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The manager of a bottling plant is anxious to reduce the variability in net weight of fruit bottled. Over a long period, the standard deviation has been 15.2 gm. A new machine is introduced and the net weights (in grams) in 10 randomly selected bottles (all of the same nominal weight) are 987, 966, 955, 977, 981, 967, 975, 980, 953, and 972.

State null and alternative hypothesis that machine has a better performance? Also write down test-statistics about the hypothesis.

Answer (Please [click here](#) to Add Answer)



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Find the coefficient of standard deviation from the following data:
Life in Hours (X): 130, 150, 180, 250, 345

Answer (Please [click here](#) to Add Answer)



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What is the probability that a poker hand of 5 cards contain (i) exactly 2 aces (ii) exactly 1 ace?
(Use hypergeometric distribution)

Answer (Please [click here](#) to Add Answer)



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If $n=22$, $\sum (d - \bar{d})^2 = 270$, $\bar{d} = 4$

Then, using a 0.05 level of significance level, test the hypothesis $H_0: \mu_d = 0$ against $H_1: \mu_d \neq 0$

Answer (Please [click here](#) to Add Answer)



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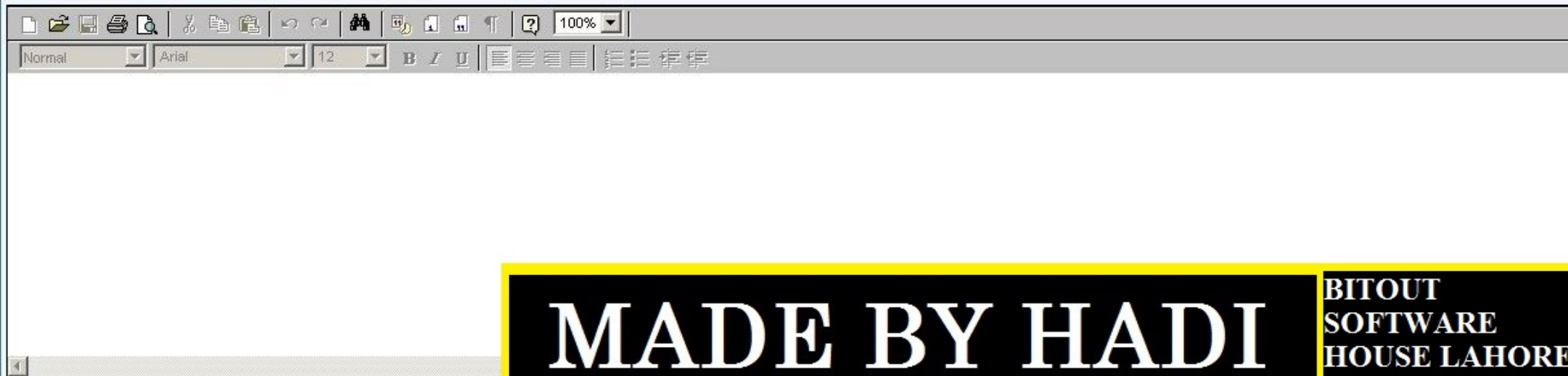
A company launched new layout of its website. After a survey, 62 of 115 visitors liked the new layout while 59 of 135 visitors liked the old layout of the website. Company claims that new layout did not improve the visitor's liking about the website.

By using the critical value $Z < -Z_{0.05} = -1.645$, verify the company's claim:

$$H_0: P_1 - P_2 \geq 0$$

$$H_1: P_1 - P_2 < 0$$

Answer (Please [click here](#) to Add Answer)



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