

VIRTUAL UNIVERSITY OF PAKISTAN

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CORRECT ANSWER SOLVED BY HADI
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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!

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STA301 FINAL TERM CURRENT PAPER

#TEAM_HADI_VU

Question: The curve of the F- distribution depends upon:

- Degrees of freedom..... TEAM HADI VU
- Standard deviation
- Mean
- Variance

Question: The value of γ can never be:

- Zero
- Less than 1..... TEAM HADI VU
- Greater than 1
- Negative

Question: For testing of hypothesis about population proportion, we use:

• **Z-testTEAM HADI VU**

- t-Test
- Both Z & T-test
- F test

Question: The parameter of the chi-square distribution is.....

• **v.....TEAM HADI VU**

- v-1
- v-2
- v-P

Question: In a one-way ANOVA:

- The interaction term has $(c-1)(n-1)$ degrees of freedom
- An interaction term is given
- **An interaction effect can be testedTEAM HADI VU**
- There is no interaction term

Question: When sampling is done with or without replacement, $E(p)$ is equal to:

• **InfinityTEAM HADI VU**

- pq/n
- μ
- \bar{X}

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

- 5
- 8
- **9.....TEAM HADI VU**
- 10

Question: A randomly selected sample of 400 students at university was asked whether or not they will participate in politics. Forty-six percent of the 400 student surveyed answered "yes". Which one of the following statement about number 46% is correct?

- **It is a sample statistic.TEAM HADI VU**

- It is a population parameter.
- It is a margin of error.
- It is a standard error.

Question: Interval estimation and confidence interval are:

- Same
- **Different.....TEAM HADI VU**
- Opposite
- Independent

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

- 0
- 1
- **C.....TEAM HADI VU**
- $-C$

Question: For degree of freedom $v > 2$ the variance of t -distribution is always:

- Greater than zero
- Less than one
- Equal to one
- **Greater than one.....TEAM HADI VU**

Question: In normal distribution $(\text{Beta})_2 =$

- 1
- 2
- **3.....TEAM HADI VU**
- 0

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

- X-distribution.
- T-distribution.
- Z-distribution.

• **F-distribution.TEAM HADI VU**

Question: In case of a 3x3 contingency table what is the value of degrees of freedom?

- 2
- 6
- 9
- 7

Question: F- distribution is _____

• **Positively skewedTEAM HADI VU**

- Negatively skewed
- Normal
- Symmetrical

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

• **Positively skewedTEAM HADI VU**

- Negatively skewed
- Uniformly distributed
- Normally distributed

Question: If there are 8 treatments with 6 blocks in a randomized completed block design then what are the degrees of freedom for treatments?

- 5
- 4
- 6

• **7.....TEAM HADI VU**

Question: A discrete probability distribution may be represented by:

- Table

• **GraphTEAM HADI VU**

- Mathematical Equation
- All of the above

Question: A statistic is an unbiased estimator of a parameter if.

- **E(statistic)= parameterTEAM HADI VU**
- E(mean)=variance
- E(variance)=mean
- E(sample mean)=proportion

Question: Increase the accuracy by increasing the sample size, this property is called

- Sufficiency
- **Consistency**
- Efficiency
- Precision

Question: A statistic used to estimate a population parameter is a

- Point estimator
- **Point estimate.....TEAM HADI VU**
- Interval estimator
- Interval estimate

Question: level of significance is also called:

- size of the test
- power of the test
- level of confidence
- confidence coefficient

Question: The variance of a binomial distribution depends on:

- Number of trials
- Probability of success
- Probability of failure
- **All of the above.....TEAM HADI VU**

Question: If the observations are paired and the number of pairs is n , then degree of freedom is equal to: Answer

- $n/2$
- **$n-1$TEAM HADI VU**
- n_1+n_2-2
- n

Question: The two mutually exclusive outcomes in a Bernoulli trial are usually called:

- **Success and failure.....TEAM HADI VU**
- Variable and constant
- With and without replacement
- Mean and variance

Question: A statement about the population parameter (unknown), which may or may not be true, is called

- Test statistics
- **Statistical hypothesis.....TEAM HADI VU**
- Null hypothesis
- Alternative hypothesis

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