

Note: I found these screen shots in a facebook group

Virtual University Overseas Examination System V2.1 (x86)
Statistics and Probability (STA301)
Question 1 (Marks: 1) Attempted 5 Total 5

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

Choice

- v
- $v-1$
- $v-2$
- $v-p$

TIME LEFT: 110

Virtual University Overseas Examination System V2.1 (x86)
Statistics and Probability (STA301)
Question 2 (Marks: 1) Attempted 5 Total 52

The F-distribution always ranges from:

Choice

- 0 to 1
- 0 to $-\infty$
- $-\infty$ to $+\infty$
- 0 to $+\infty$

TIME LEFT: 119

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Statistics and Probability (STA301)
Questio 3 (Marks: 1) Attempted 5 Total 52

Which of the following is true for the Poisson distribution:

Choice

- mean > variance
- mean < variance
- mean = variance
- mean = standard deviation

TIME LEFT: 119

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Statistics and Probability (STA301)
Questio 4 (Marks: 1) Attempted 5 Total 52

In a one-way ANOVA:

Choice

- 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

Not Sure

TIME LEFT

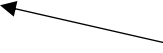
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Question 5 (Marks: 1) Attempted 5 Total 52

Which one of the following assumptions is not a requirement for ANOVA?

Choice


- Dependent samples 
- Normal populations
- random samples
- Independent samples

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Statistics and Probability (STA301)
Question 6 (Marks: 1) Attempted 5 Total 52

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

Choice

- 1
- 3
- 5 
- 7

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Statistics and Probability (STA301)
Questio 7 (Marks: 1) Attempted 6 Total 52

Under what condition would you use the paired t-test?

Choice

- When there is a single sample of data
- When the two samples of data are independent
- When the two samples of data are not independent
- When there are two proportions

When should a paired t-test be performed? A paired t-test should be performed **when the variable of interest is quantitative, there are two groups being compared, and the samples taken are dependent.**

TIME LEFT

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Statistics and Probability (STA301)
Questio 9 (Marks: 1) Attempted 8 Total 52

When the random variable X and Y are independent then their co-variance is:

Choice

- One
- Negative
- Zero
- Positive

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Statistics and Probability (STA301)
Question 8 (Marks: 1) Attempted 9 Total 52

In the case of the sampling distribution of \bar{X} , the finite population correction factor (fpc) is:

Choice

- $\frac{n-N}{\sqrt{N-1}}$
- $\frac{\sqrt{N-1}}{\sqrt{N-n}}$
- $\frac{\sqrt{N-n}}{\sqrt{N-1}}$ ←
- $\frac{\sqrt{N-n}}{\sqrt{N}}$

TIME LEFT: 1:17

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Question 10 (Marks: 1) Attempted 9 Total 52

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?

Choice

- It is a sample statistic. ←
- It is a population parameter.
- It is a margin of error.
- It is a standard error.

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Virtual University Overseas Examination System V2.1 (x86)

Statistics and Probability (STA301)

Question 11 (Marks: 1) Attempted 10 Total 52

If $f(x, y)$ is bivariate probability density function of continuous random variables X and Y then marginal density function of y i.e. $h(y)$ is:

Choice

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

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

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

$\int_a^b \int_c^d f(x, y) dy dx$

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Statistics and Probability (STA301)

Question 12 (Marks: 1) Attempted 11 Total 52

In interval estimation, we always get:

Choice

Single value

Two values

Range of values ←

Zero

A point estimate is a single value estimate of a parameter, while an interval estimate gives you a range of values.

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Statistics and Probability (STA301)
Questio 13 (Marks: 1) Attempted 12 Total 52 bc2

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

The sample variance is:

Choice



- Unbiased estimator of σ^2
- Biased estimator of σ^2 
- Unbiased estimator of μ
- Biased estimator of μ

TIME LEFT: 115

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Statistics and Probability (STA301)
Questio 14 (Marks: 1) Attempted 13 Total 52 bc20

The critical region for $H_1 : \mu > \mu_0$ when $\alpha = 0.01$ is:

Choice

- $z > z_{0.01}$ 
- $|z| > z_{0.01}$
- $z < -z_{0.05}$ 
- $|z| > z_{0.05}$

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Virtual University Overseas Examination System V2.1 (x86)
Statistics and Probability (STA301) bc20
Question 15 (Marks: 1) Attempted 15 Total 52

Which one is the formula for calculating the variance of the t-distribution?

Choice

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

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

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

$\sigma^2 = \frac{v}{v-2}$ ←

TIME LEFT: 114

Statistics and Probability (STA301)
Question 16 (Marks: 1) Attempted 16 Total 52

For $\alpha = 0.01$, the critical values of z for two tailed test are equal to:

Choice

-2.58 and +2.58 ✓

-2.33 and +2.33

-1.645 and +1.645

-1.96 and +1.96 ✗ ←

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Virtual University Overseas Examination System V2.1 (x86)
 Statistics and Probability (STA301)
 Question 17 (Marks: 1) Attempted 16 Total 52

Which one of the formula will be used to find out the confidence interval for μ , when population variance unknown and sample size is large?

Choice

$\bar{x} \pm Z_{\alpha/2} \frac{s}{\sqrt{n}}$ ←

above example pertained to the 95% confidence interval for μ . In general, the lower and upper limits of the confidence interval for μ are given by $\bar{x} \pm Z_{\alpha/2} \frac{s}{\sqrt{n}}$

$\bar{x} \pm t_{\alpha/2(n)} \frac{s}{\sqrt{n}}$

$\bar{x} \pm t_{\alpha/2(n)} \frac{\sigma}{\sqrt{n}}$

$\bar{x} \pm Z_{\alpha/2} \frac{s}{\sqrt{n-1}}$

Virtual University Overseas Examination System V2.1 (x86)
 Statistics and Probability (STA301)
 Question 18 (Marks: 1) Attempted 18 Total 52

The proportion of males in Pakistan is at least 0.48, the alternative hypothesis H_1 is

Choice

$P \leq 0.48$

$P = 0.48$

$P < 0.48$ ←

$P \geq 0.48$

113 Next Question

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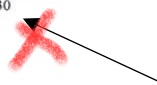
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Statistics and Probability (STA301) bc2

Question 19 (Marks: 1) Attempted 18 Total 52


The proportion of working females in Pakistan is at most 0.30, the alternative hypothesis.

Choice

$P < 0.30$ 

$P = 0.30$

$P \leq 0.30$

$P > 0.30$ 

TIME LEFT: 113

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Statistics and Probability (STA301) bc2

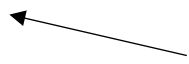
Question 20 (Marks: 1) Attempted 19 Total 52

If \bar{X} is the mean of the n observations, then which test statistic will be used to calculate the confidence limits of the population variance σ^2 ?

Choice

Z-statistic

T-statistic

χ^2 -statistics 

F-statistics

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Statistics and Probability (STA301)
Questio 21 (Marks: 1) Attempted 20 Total 52 bc20

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

Choice

- F-Distribution
- Z-Distribution
- Chi-square-Distribution
- t-Distribution

TIME LEFT: 1:19

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Statistics and Probability (STA301)
Questio 22 (Marks: 1) Attempted 21 Total 52 b

In case of a 2×3 contingency table what is the value of degrees of freedom?

Choice

- 1
- 2
- 5
- 6

2×3 contingency table, there exist $(2 - 1) (3 - 1) = 2$ degrees of freedom

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Statistics and Probability (STA301)
Question 23 (Marks: 1) Attempted 22 Total 5

In case of a 3×3 contingency table what is the value of degrees of freedom?

Choice

- 2
- 4
- 6
- 9

TIME LEFT

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Statistics and Probability (STA301)
Question 24 (Marks: 1) Attempted 23 Total 52

The Chi- Square distribution is continuous distribution ranging from:

Choice

- $-\infty \leq \chi^2 \leq \infty$
- $-\infty \leq \chi^2 \leq 1$
- $-\infty \leq \chi^2 \leq 0$
- $0 \leq \chi^2 \leq \infty$

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Virtual University Overseas Examination System V2.1 (x86)

Statistics and Probability (STA301)

Question 25 (Marks: 1) Attempted 24 Total 52

Suppose there are 5 treatments with 4 blocks in a randomized completed block design.
What are the degrees of freedom for blocks?

Choice

- 2
- 1
- 3 $v=n-1$
- 4

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Statistics and Probability (STA301)

Question 26 (Marks: 1) Attempted 25 Total 52

What is the shape of t-distribution?

Choice

- Bell shaped The t-distribution is bell-shaped and symmetric about the value $t = 0$, ranging from $-\infty$ to ∞ .
- J shaped
- U shaped
- T shaped

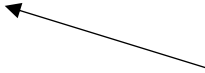
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Questio 27 (Marks: 1) Attempted 26 Total 52 bc2

In a binomial experiment the total number of trials are:

Choice

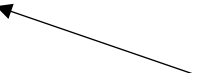
- Fixed in advance 
- Changeable according to situation
- Unpredictable
- Not independent

TIME LEFT
110

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Statistics and Probability (STA301)
Questio 28 (Marks: 1) Attempted 27 Total 52 bc2

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

Choice

- mean $>$ variance 
- mean $<$ variance
- mean = variance
- mean = standard deviation

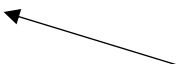
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Virtual University Overseas Examination System V2.1 (x86)
Statistics and Probability (STA301)
Question 29 (Marks: 1) Attempted 28 Total 52

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

Choice

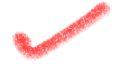


- Unbiased
- Sufficient
- Efficient 
- Consistent

TIME LEFT

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Statistics and Probability (STA301)
Question 30 (Marks: 1) Attempted 29 Total 52

A 99% confidence interval for the population mean μ is determined to be (65.32 to 73.54). If the confidence level is reduced to 90% the confidence interval for μ

Choice

- Become wider 
- Become narrower  
- Remains unchanged
- None of these

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Statistics and Probability (STA301)

Questio 31 (Marks: 1) Attempted 30 Total 52

A 95% confidence interval for population proportion p is 32.4% to 47.6%, the value of sample proportion is:

Choice

- 40% ←
- 32.4%
- 47.6%
- 80%

TIME LEFT: 100

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Statistics and Probability (STA301)

Questio 32 (Marks: 1) Attempted 31 Total 52

If $\mu_3 = 0.08$ and $\mu_2 = 2.64$, then the skewness of the distribution will be:

Choice

- 2.5
- 0.87
- 0.000348 ←
- 1.5

$$\beta_1 = \frac{\mu_3^2}{\mu_2^3}$$

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Virtual University Overseas Examination System V2.1 (x86)
Statistics and Probability (STA301)
Question 33 (Marks: 1) Attempted 32 Total 52

For a continuous random variable X, $P(X = x)$ is:

Choice

0 ← for a continuous random variable X, $P(X = x) = 0$:

0.5

1

0.4

TIME LEFT

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Statistics and Probability (STA301)
Question 34 (Marks: 1) Attempted 33 Total 52

All hypothesis tests start with

Choice

A null hypothesis ← In hypothesis testing, we begin by **stating the null hypothesis**.

Alternative hypotheses

Test statistic

Type-I Error

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Virtual University Overseas Examination System V2.1 (x86)
Statistics and Probability (STA301)
Question 35 (Marks: 1) Attempted 34 Total 52

A hyper geometric random variable is a

Choice

- Independent variable
- Continuous random variable
- Discrete random variable
- Variable

TIME LEFT: 108

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Virtual University Overseas Examination System V2.1 (x86)
Statistics and Probability (STA301)
Question 37 (Marks: 1) Attempted 37 Total 50

In a normal distribution $N(\mu, \sigma^2)$, mean deviation is equal to

Choice

- 0.5σ
- 0.6745σ
- 0.7979σ
- 1.5σ

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Statistics and Probability (STA301)
Question 36 (Marks: 1) Attempted 37 Total 52

For a normal distribution with $\mu=55$ and $\sigma=10$, how much area will be found under the curve to the right of $X=55$?

Choice

- 1.0
- 0.68
- 0.5 ←
- 0.32

Not Sure

TIME LEFT
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Statistics and Probability (STA301)
Question 38 (Marks: 1) Attempted 38 Total 52

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Statistics and Probability (STA301)
Question 38 (Marks: 1) Attempted 38 Total 52

If X represents the number of units having the specified characteristic and N is the size of the population, then population proportion p is equal to:

Choice

- X/n
- N/X
- X/N ←
- σ^2 / n

$$p = \frac{X}{N}$$

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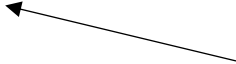
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Virtual University Overseas Examination System V2.1 (x86)
Statistics and Probability (STA301)
Question 39 (Marks: 1) Attempted 38 Total 52

How the standard error is decreased :

Choice

- By decreasing the sample size
- By decreasing the mean
- By increasing the standard deviation
- By increasing the sample size




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Statistics and Probability (STA301)
Question 40 (Marks: 1) Attempted 40 Total 52

If you draw all possible samples from some population, calculate the mean for each of the sample and construct the probability distribution of the sample means, what would you have?

Choice

- A population distribution
- A sample distribution
- A sampling distribution
- A parameter distribution



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Virtual University Overseas Examination System V2.1 (x86)

Statistics and Probability (STA301)

Question 41 (Marks: 2) Attempted 42 Total 52

If there are K treatments and R rows in a Randomized Complete Block Design then calculate the total number of experimental units used.

Answer

If there are K treatments and R rows in a Randomized Complete Block Design then calculate the total number of experimental units used.

TIME LEFT
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Statistics and Probability (STA301)

Question 42 (Marks: 2) Attempted 42 Total 52

If a car is driven on average no more than 1600 Km per month, then formulate the null and alternative hypothesis.

Answer

The Null Hypothesis will be
 $H_0: \mu \leq 1600$ Km

The Alternative hypothesis will be
 $H_1: \mu > 1600$ Km

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Virtual University Overseas Examination System V2.1 (x86)
 Statistics and Probability (STA301)
 Question 43 (Marks: 2) Attempted 42 Total 52

From the following joint probability distribution, find $h(1)$.

x \ y	2	4	h(y)
1	0.10	0.15	

Answer

From the following joint probability distribution, find $h(1)$.

x \ y	2	4	h(y)
1	0.10	0.15	1.25
3	0.20	0.30	3.5
5	0.10	0.15	5.25
g(x)	0.4	0.6	10

$h(1)$ for the above table is
 $h(1) = 1 + 0.10 + 0.15$
 $h(1) = 1.25$ Ans

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 Statistics and Probability (STA301)
 Question 44 (Marks: 2) Attempted 46 Total 52

What are the mean and variance of binomial distribution?

Answer

Mean of the Binomial distribution is given by
 $E(X)$ which is given by the sum of values which are the result of multiplication of x with $\int x$
 whereas variance is given by
 Vac =

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Virtual University Overseas Examination System V2.1 (x86)
Statistics and Probability (STA301)
Question 45 (Marks: 3) Attempted 46 Total 52

Construct 95% confidence interval for the difference in means $\mu_1 - \mu_2$ in case of paired observations, where

$$\bar{d} = -4.8, s_d = 1.32, t_{0.025(24)} = 2.0639$$

Answer

Construct 95% confidence interval for the difference in means $\mu_1 - \mu_2$ in case of paired observations, where

Construct 95% confidence interval for the difference in means $\mu_1 - \mu_2$ in case of paired observations, where

$$\bar{d} = -4.8, s_d = 1.32, t_{0.025(24)} = 2.0639$$

For the above observations the confidence interval will be

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Question 46 (Marks: 3) Attempted 46 Total 52

Let T_1 and T_2 are two unbiased estimators. The variances of both estimators are given below:

$$V(T_1) = \frac{11\sigma^2}{9} \text{ and } V(T_2) = \frac{13\sigma^2}{9}$$

Answer

Let T_1 and T_2 are two unbiased estimators. The variances of both estimators are given below:

Let T_1 and T_2 are two unbiased estimators. The variances of both estimators are given below:

$$V(T_1) = \frac{11\sigma^2}{9} \text{ and } V(T_2) = \frac{13\sigma^2}{9}$$

For final estimation, we want to use an *efficient* estimator. Between the two, which estimator is more efficient and why?

The first estimator is more efficient as it will give us less variances than the second one as it is using a multiplication factor of 13

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find n and q .

b) The incident of occupational disease is such that the workers have 30 percent ($P = 30/100$) chance of suffering from 6 workers. Find $P(X=4)$.

Answer

$$P(X = x) = C_r^x \left(\frac{3}{11}\right)^x \left(\frac{4}{11}\right)^{n-x}$$

a) From the given binomial probability distribution
 find n and q .

b) The incident of occupational disease is such that the workers have 30 percent $P = 30/100$ chance of suffering from 6 workers. Find $P(X=4)$.

Let x and y are two independent r.v.'s with joint pdf.

$$f(x, y) = \frac{x(1+3y^2)}{4},$$

$0 < x < 2, 0 < y < 1$

= 0, elsewhere.

Answer

Let x and y are two independent r.v.'s with joint pdf.

$$f(x, y) = \frac{x(1+3y^2)}{4},$$

$0 < x < 2, 0 < y < 1$

= 0, elsewhere.

a. Show that marginal pdf of X is

$$g(x) = \frac{x}{2}; \text{ for } 0 < x < 2$$

b. Also calculate $E(X)$.

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Statistics and Probability (STA301)

Question 50 (Marks: 5)

Attempted 52 Total

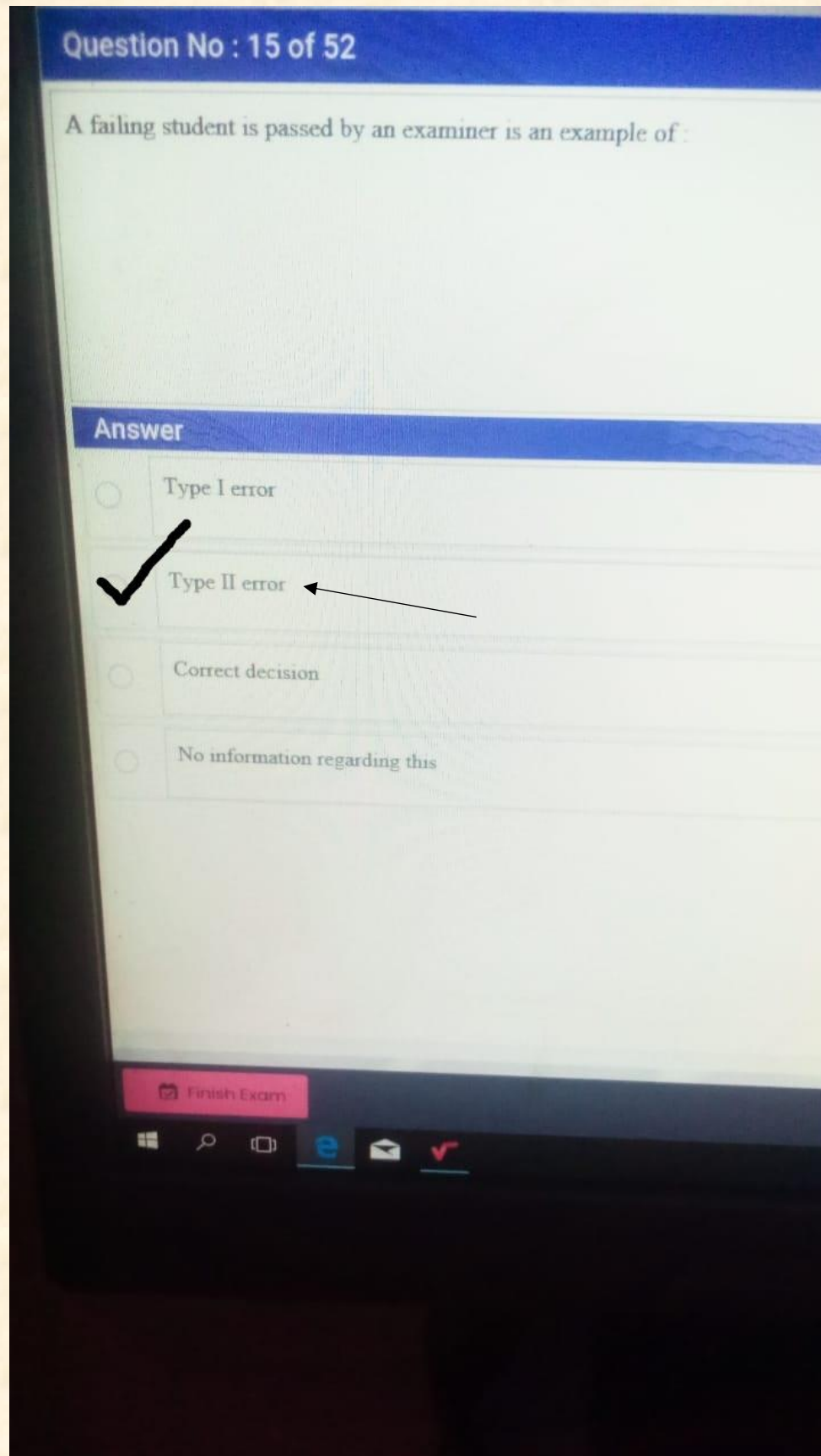
A random sample of 10 university professors gave their salaries (in thousand Rs.) 13, 11, 19, 15, 22, 20, 14, 17, 14, 15. Another random sample of 5 college professors gave their salaries (in thousand Rs.) 9, 12, 8, 10, 16. Calculate the value of pooled estimator S_p^2 .

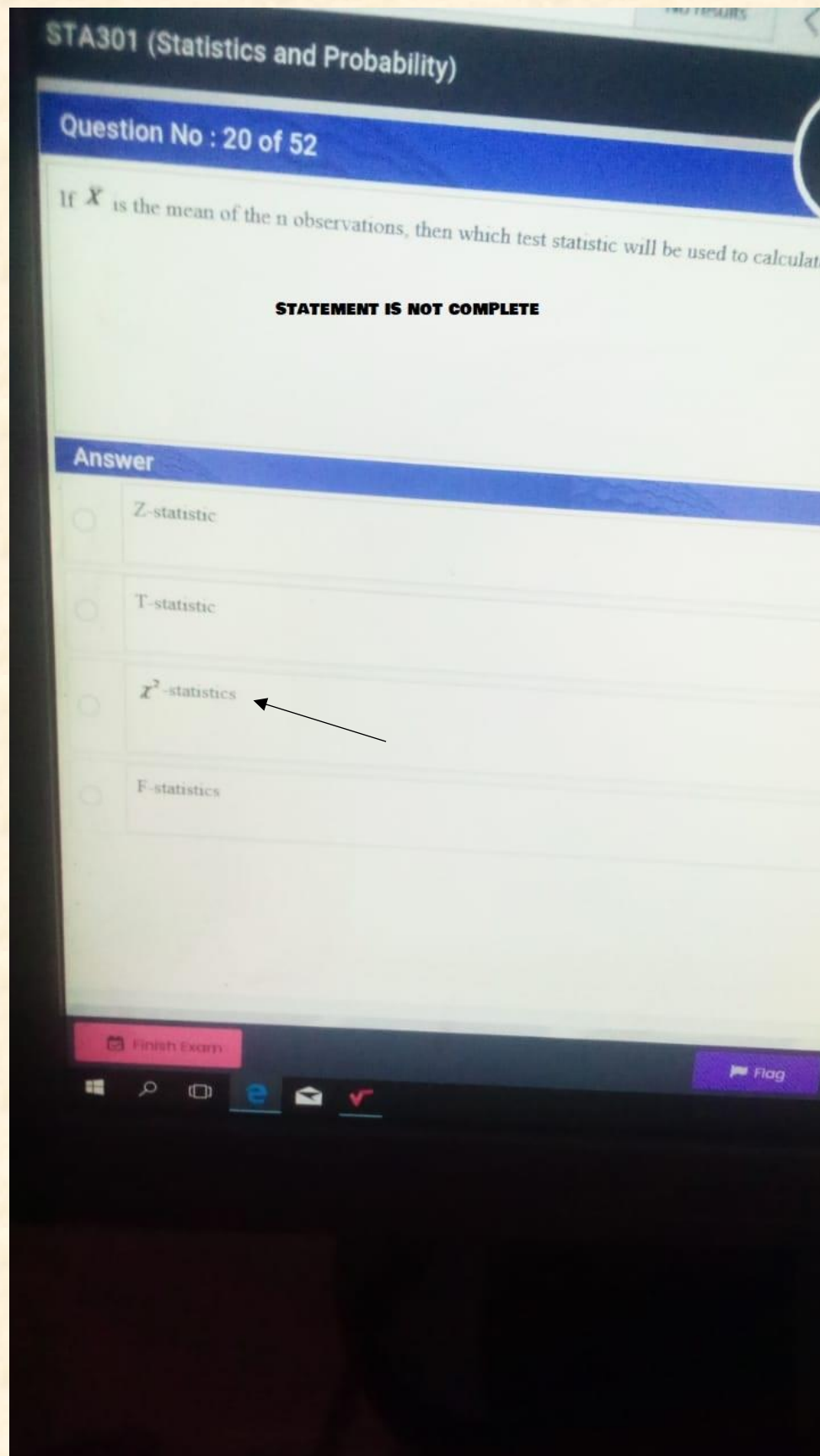
Answer



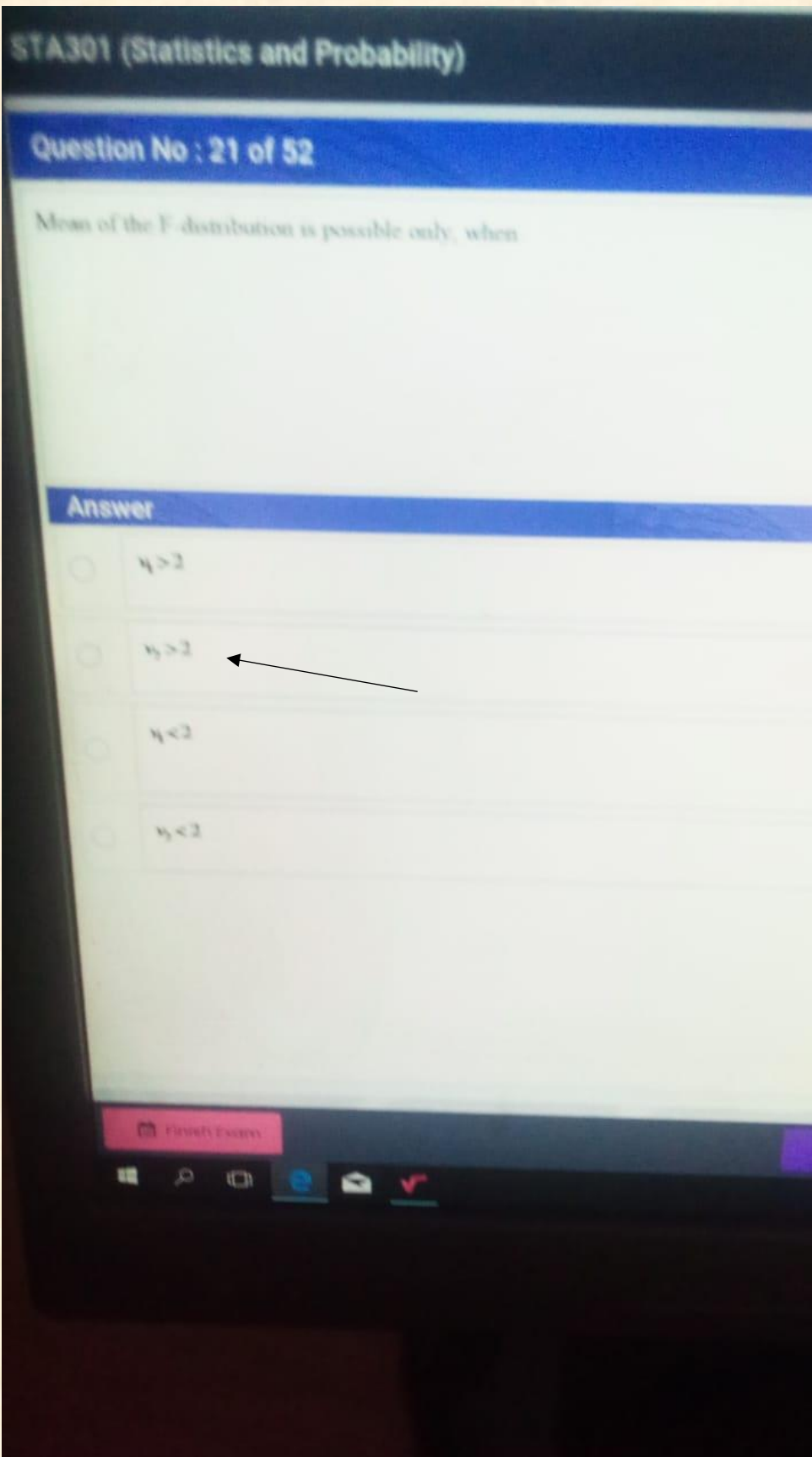
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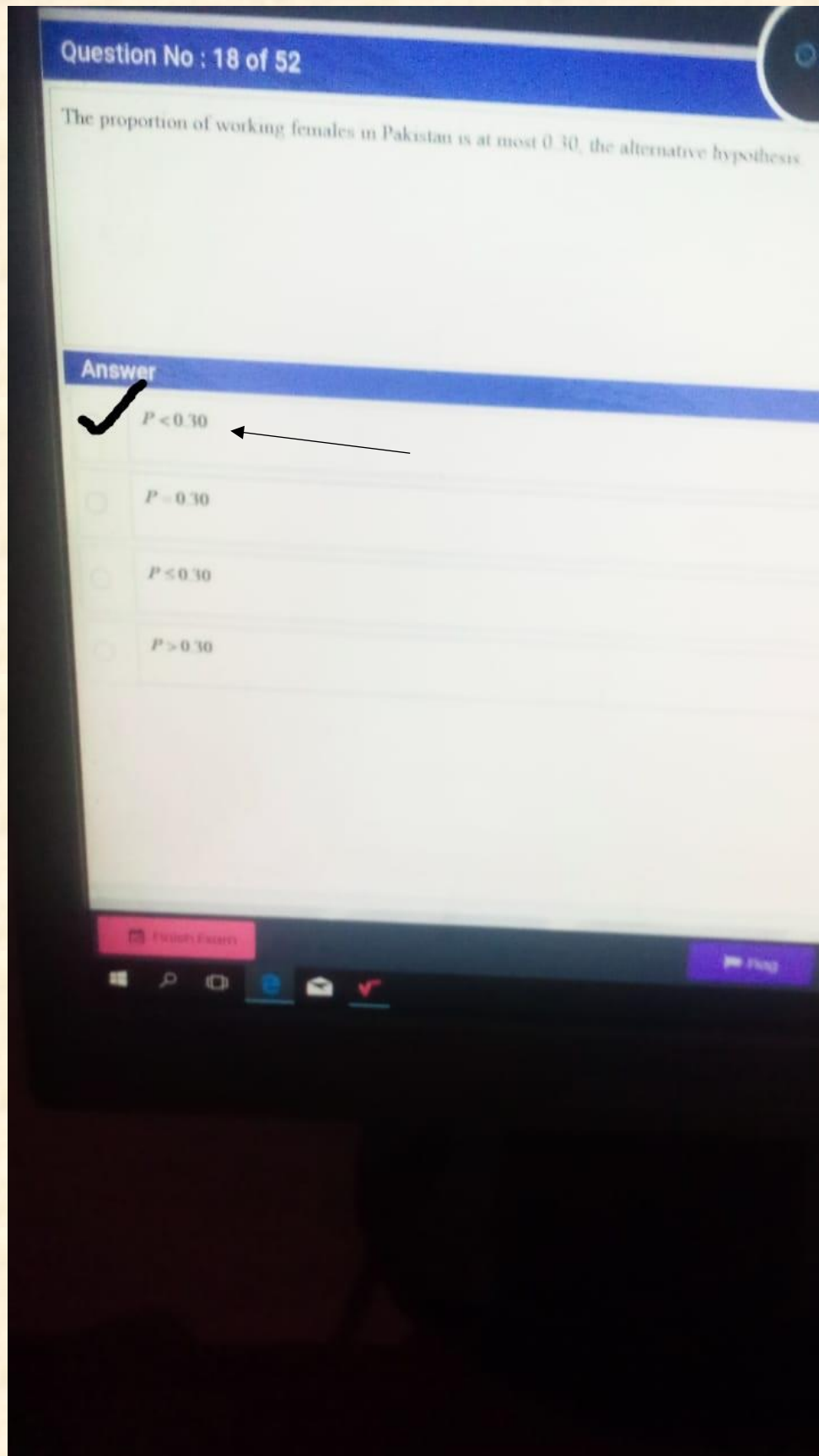
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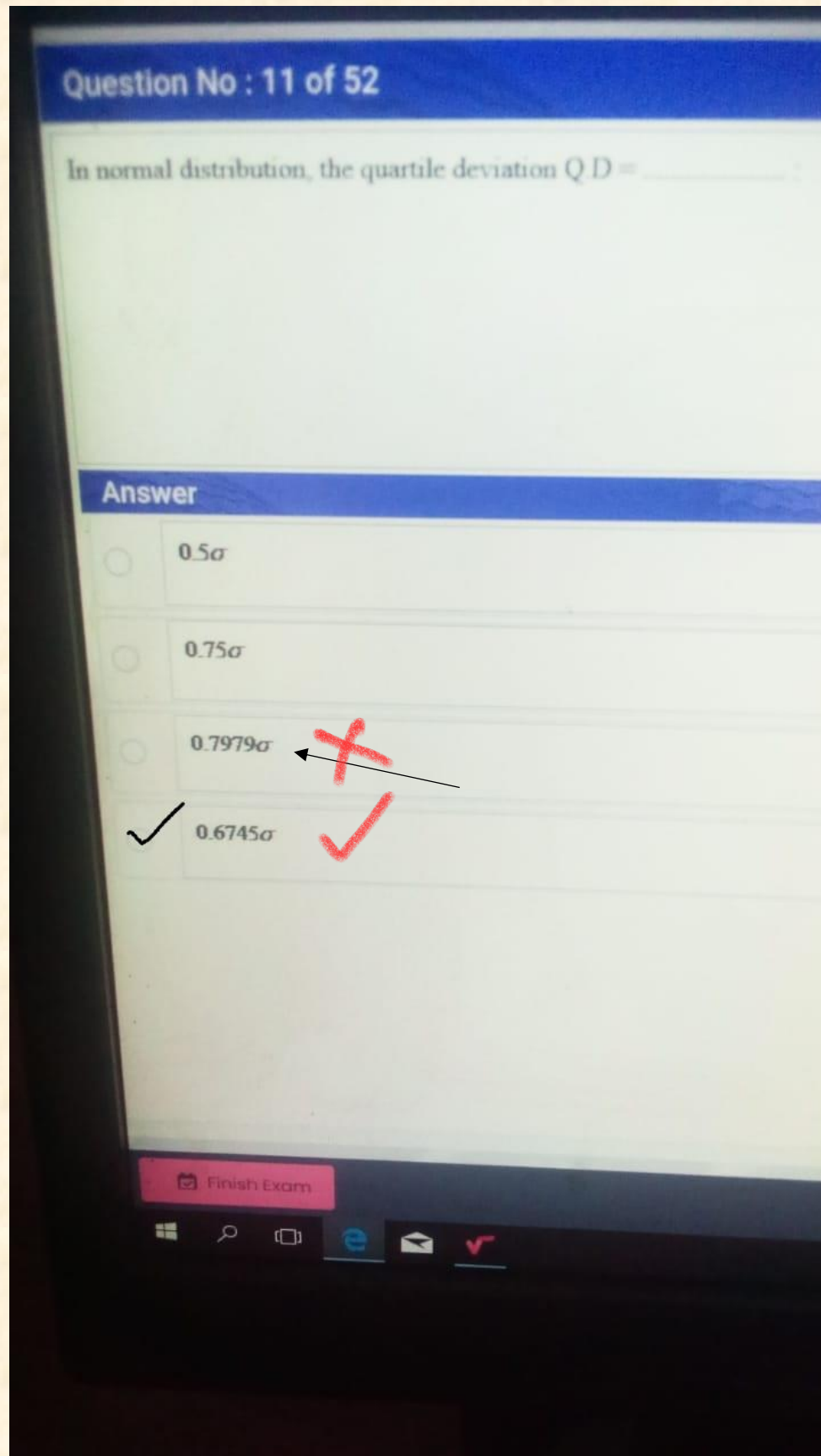


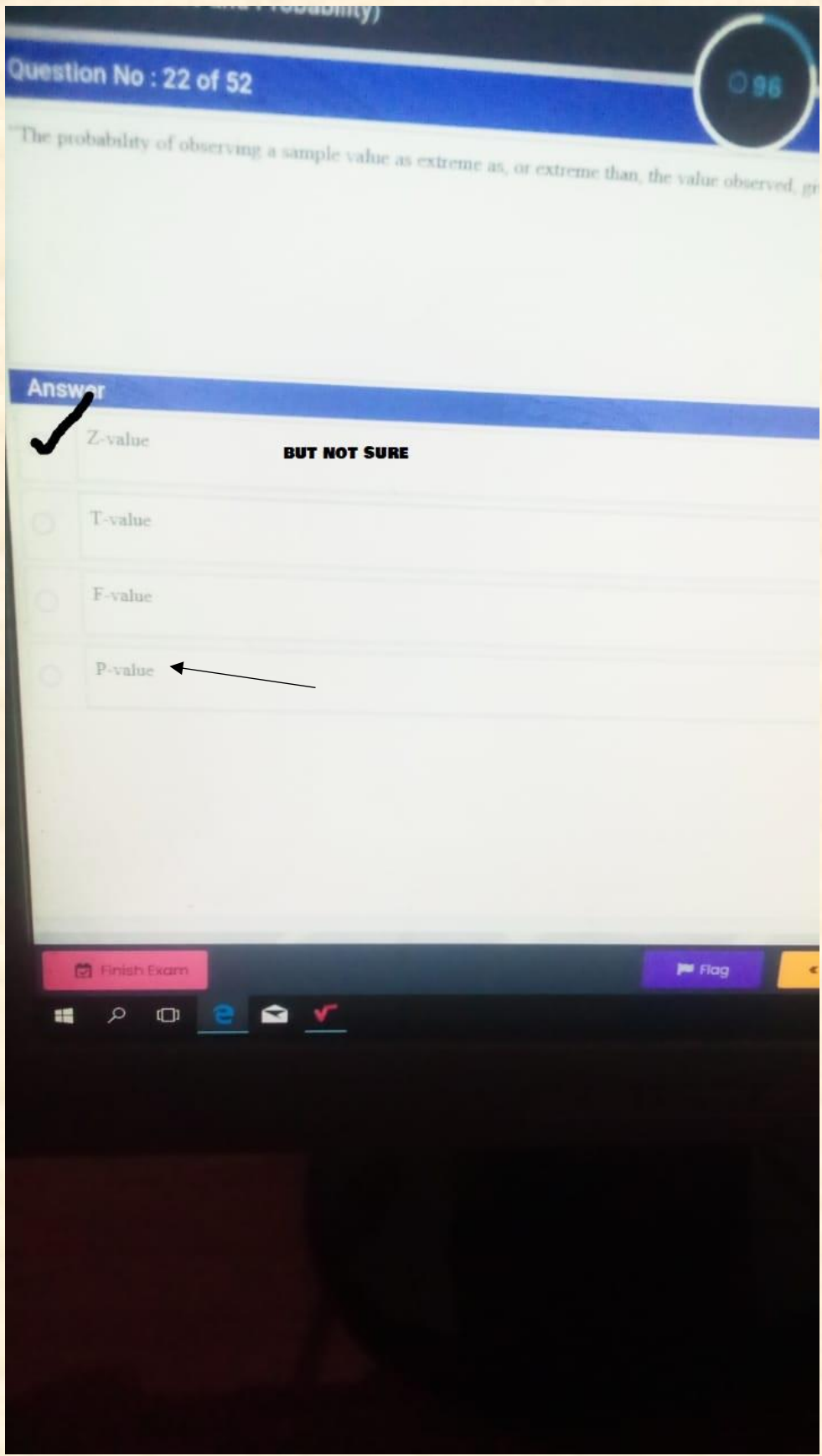


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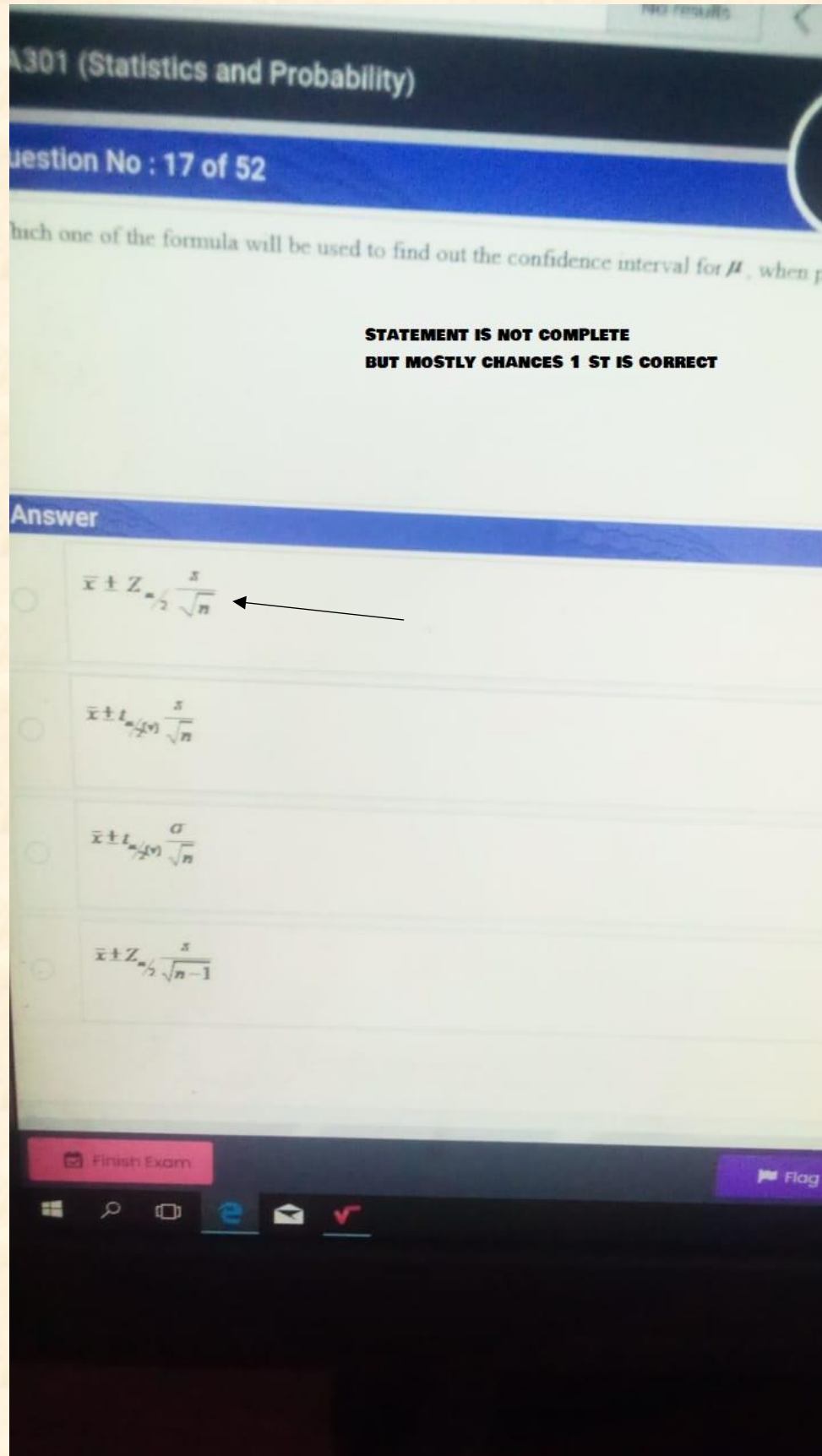








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Question No : 8 of 52

In the case of the sampling distribution of \bar{X} , the finite population correction factor (fpc) is

Answer

$\sqrt{\frac{n-N}{N-1}}$

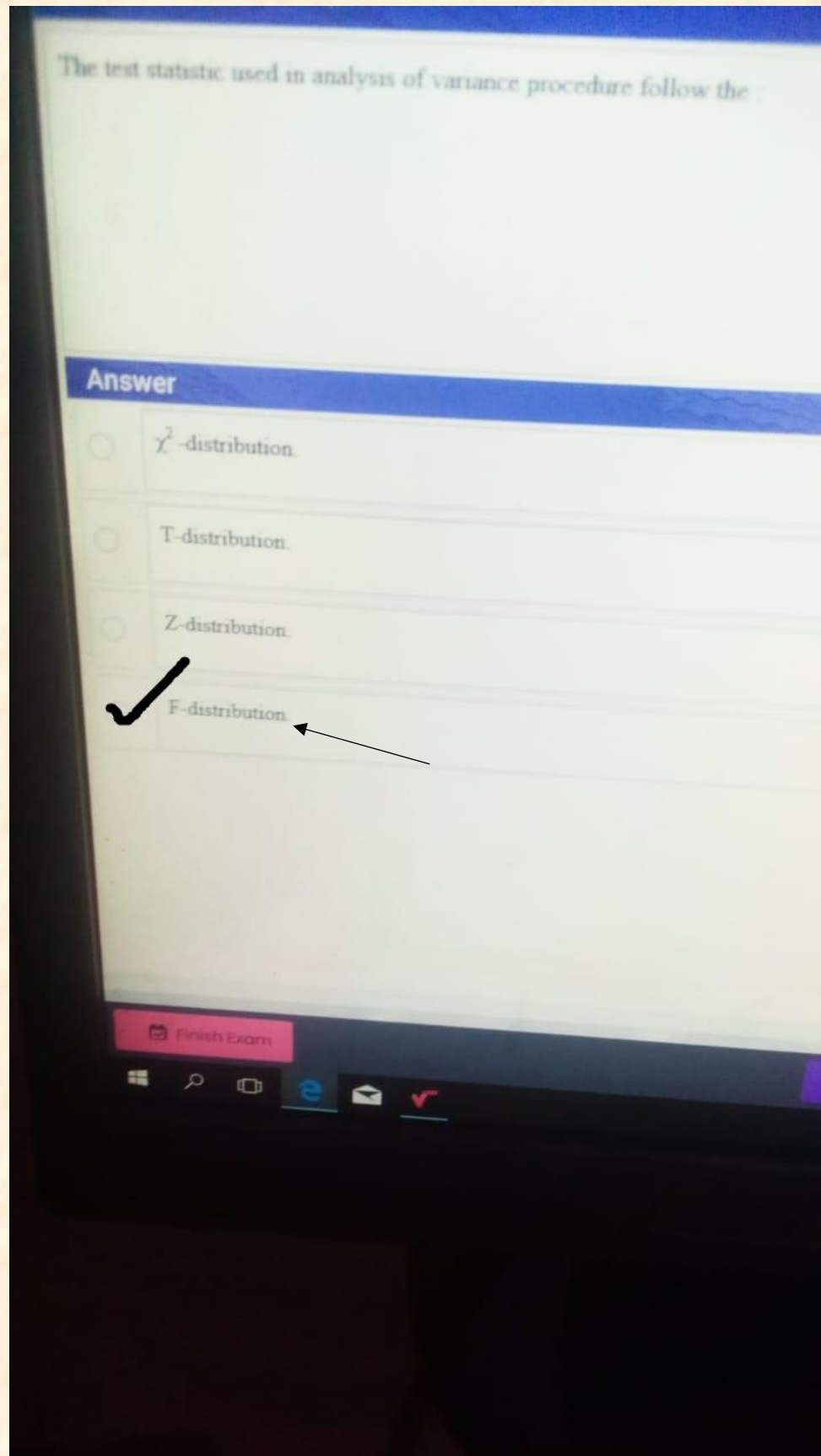
$\sqrt{\frac{N-1}{N-n}}$

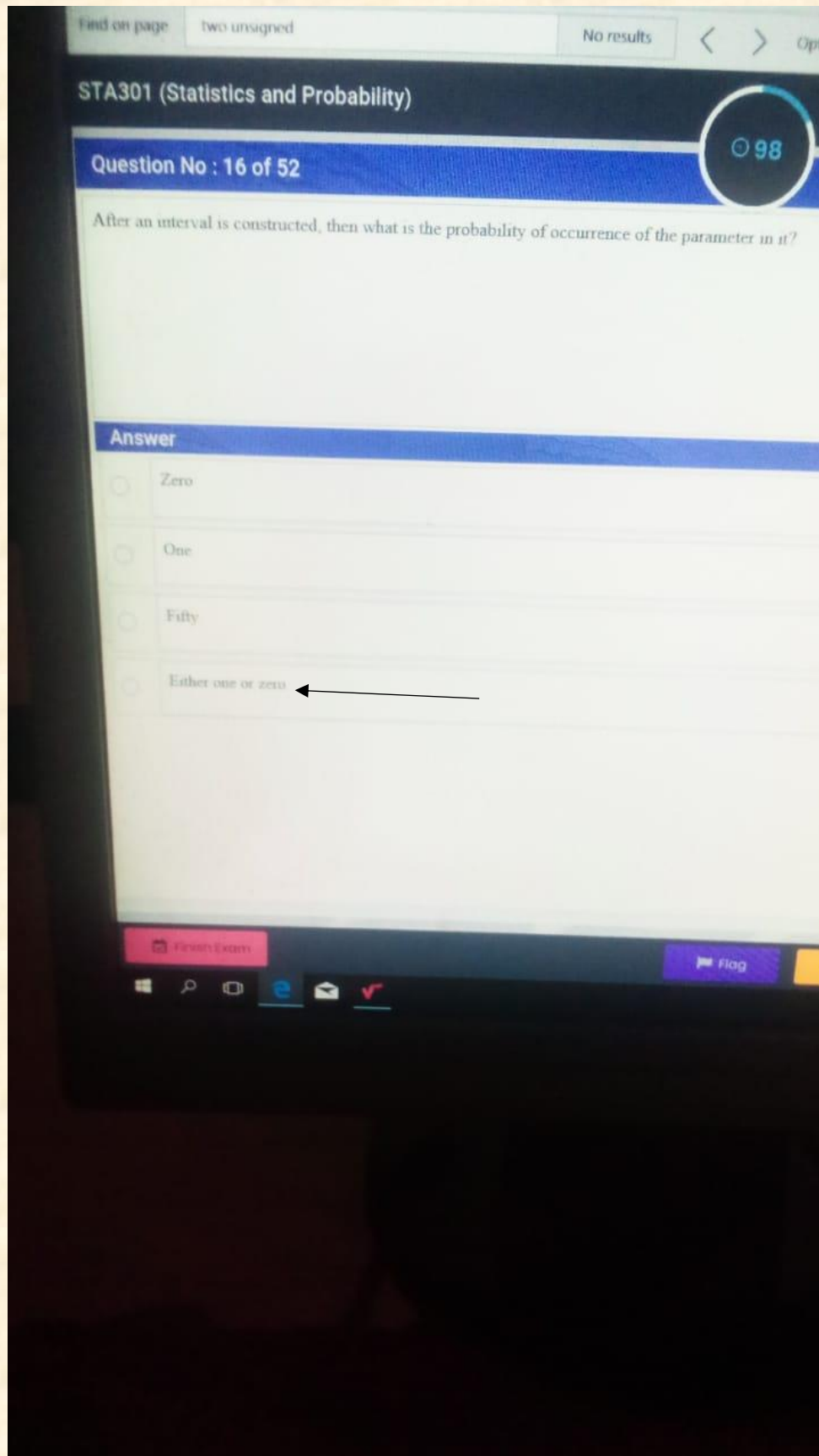
$\sqrt{\frac{N-n}{N-1}}$

$\sqrt{\frac{N-n}{N}}$

Finish Exam

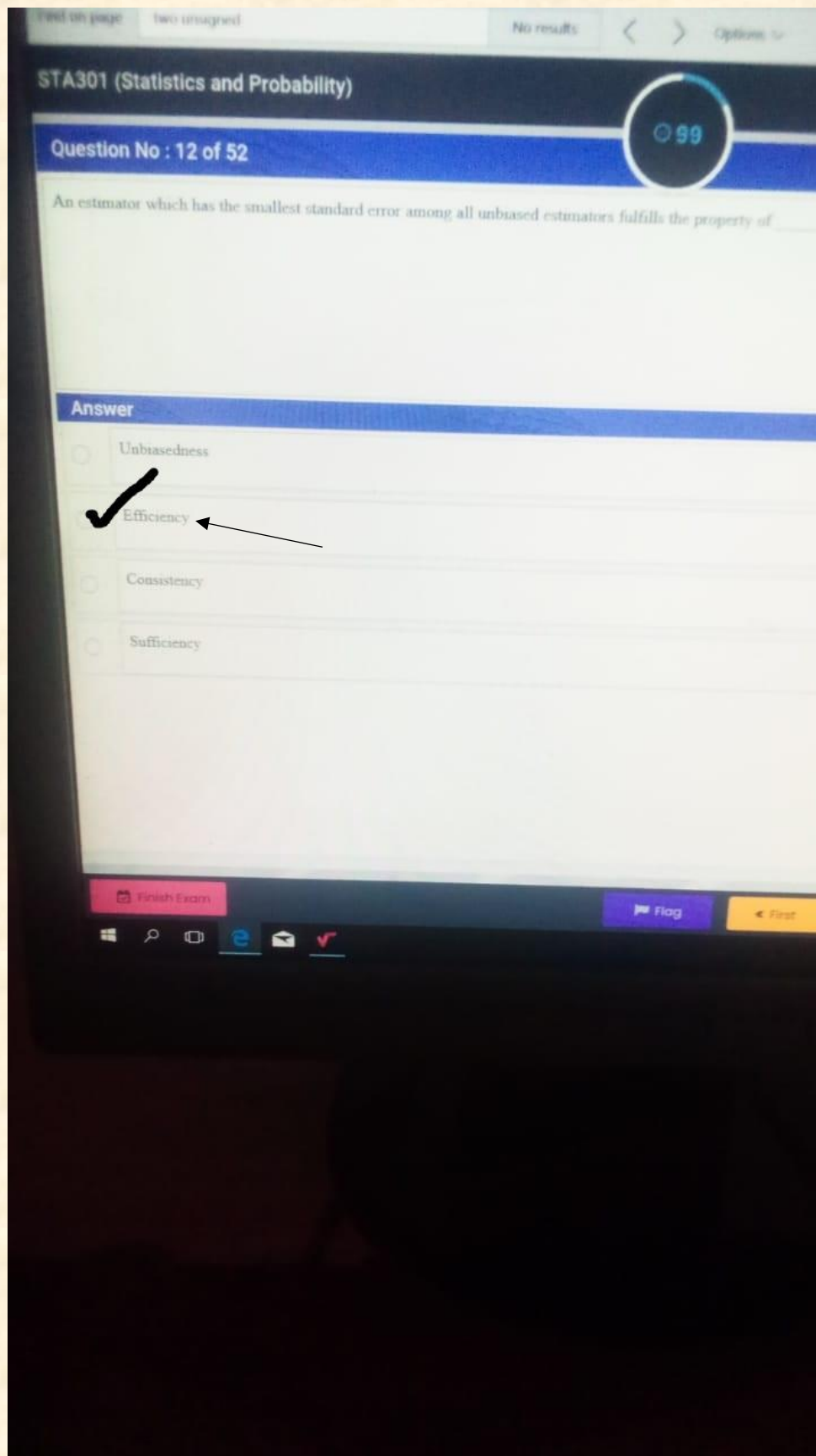
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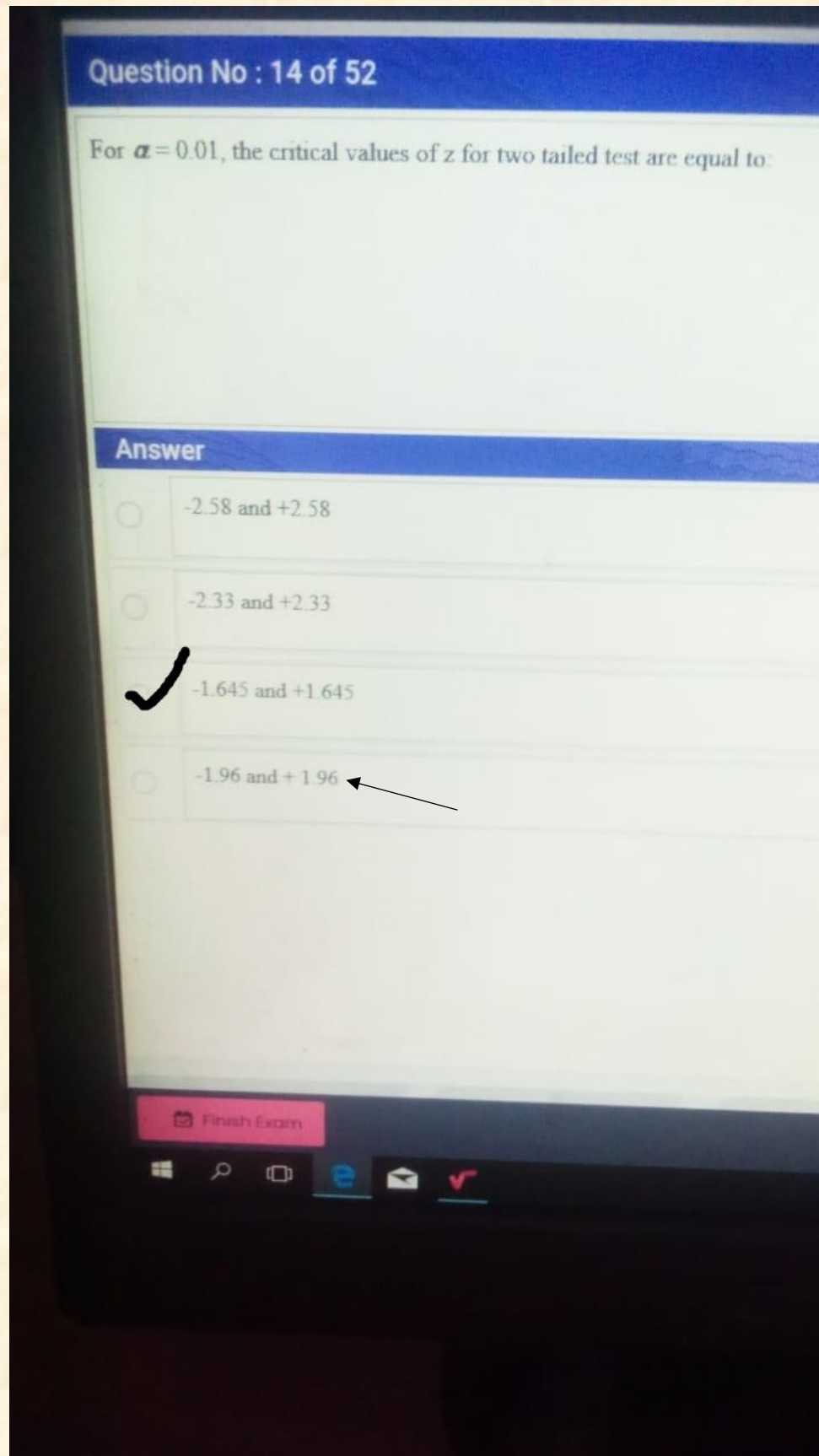


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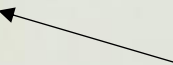
Question No : 13 of 52

The critical region for $H_1: \mu > \mu_0$ when $\alpha = 0.01$ is:

Answer



$z > z_{0.01}$



$|z| > z_{0.01}$

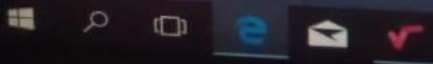


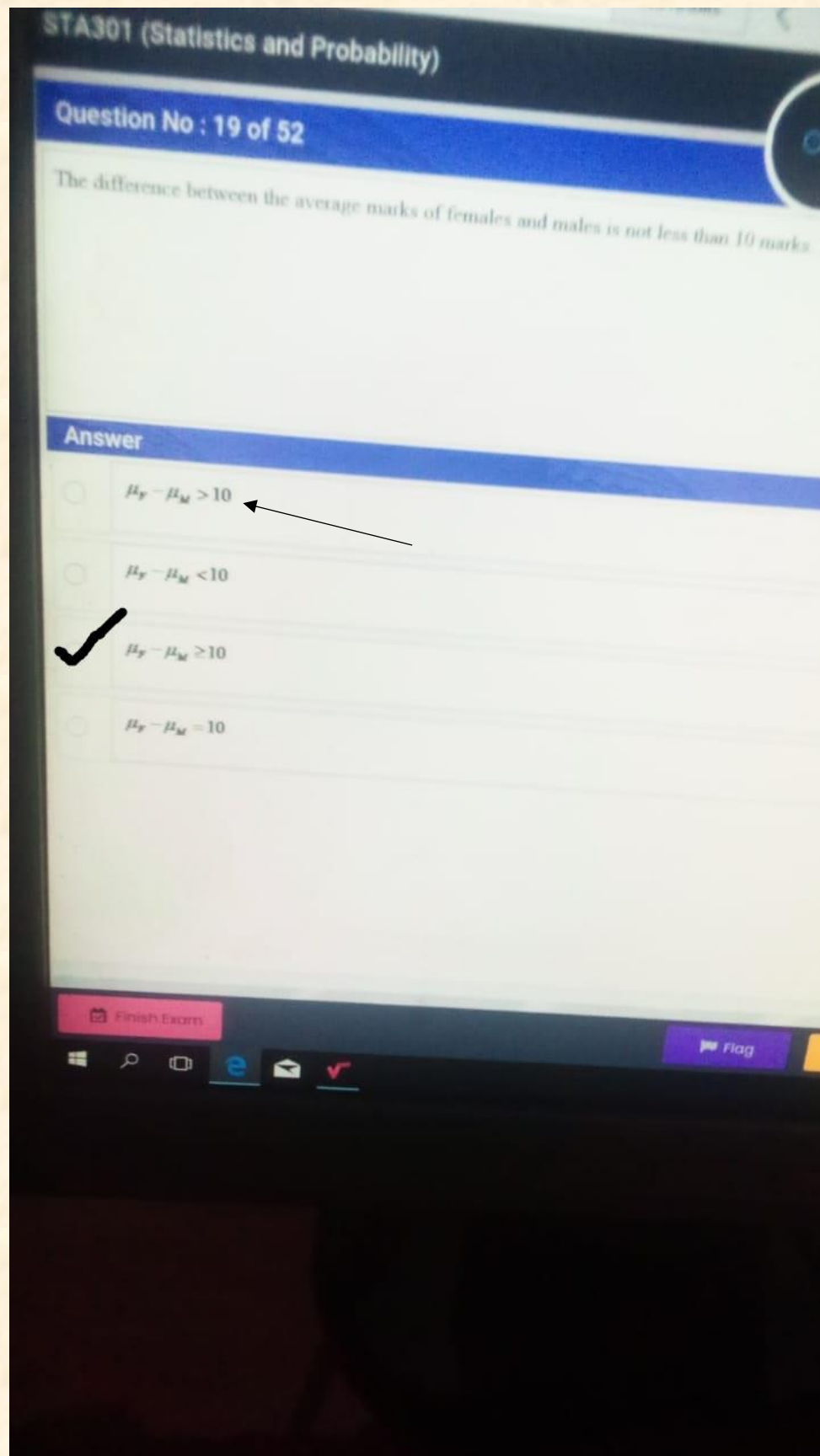
$z < -z_{0.05}$

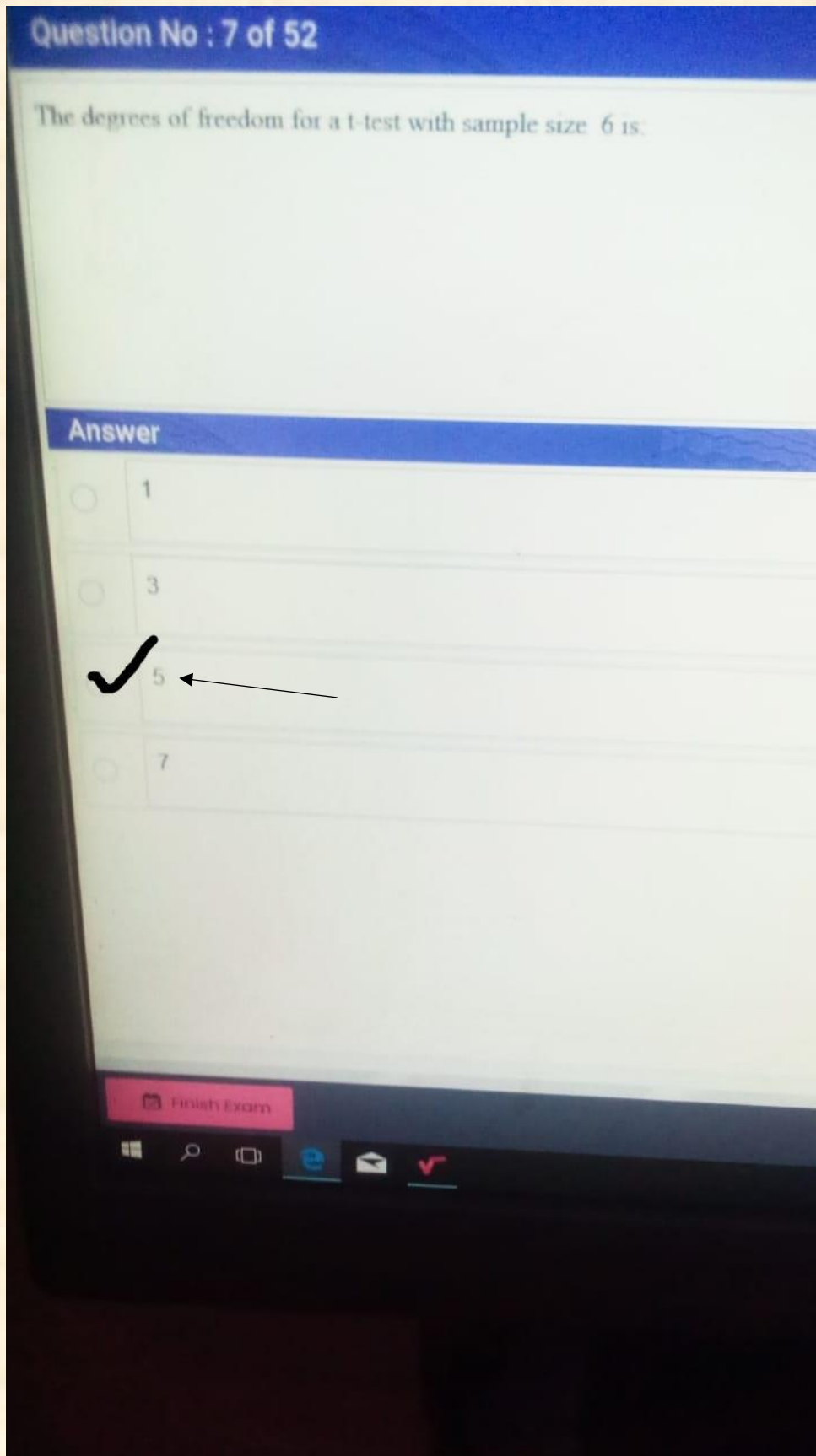


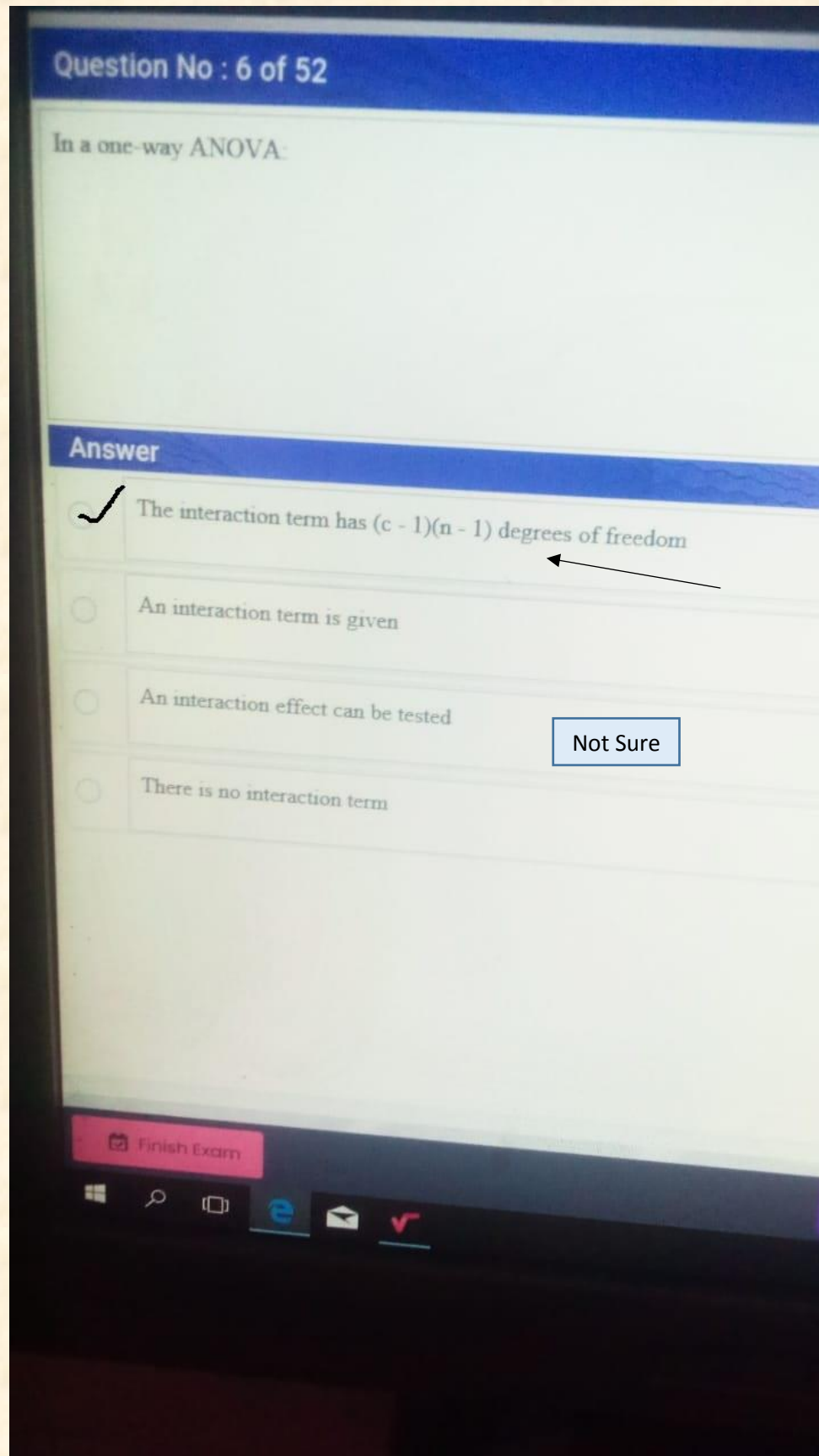
$|z| > z_{0.05}$

Finish Exam









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