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PROBABILITY AND STATISTICS

Quiz 1(UNIT-2)

YANA SRIVASTAVA

Final Grade
Submitted 4/6/22, 10:06 PM (UTC+5:30) **4 / 4**

Question scores appear after all grades are posted

Assignment Content

Question 1

The Statistic which leads to the rejection of H_0 gives:

- ☒ A Critical Region
- ☐ B Open Region
- ☐ C Closed region
- ☐ D Acceptance region

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Question 2

When H_0 is wrong and we may accept it is:

- ☐ A Type I Error , Producer's risk
- ☐ B Type I Error , Consumer's risk
- ☐ C Type II Error , Producer's risk
- ☒ D Type II Error , Consumer's risk

Question 3

If $n_1=500$, $n_2=100$, $p_1=0.032$, $p_2=0.03$ then P (Population proportion) is:

- ☐ A 0.12
- ☐ B 0.132
- ☒ C 0.032
- ☐ D none of these

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Question 4

In Curve fitting to fit a st line $y=a+bx$, if $\sum x = 10$, $\sum y=16.9$, $\sum xy=47.1$ and $\sum x^2=30$ then value of b is

☐ A 1.9

☒ B 1.33

☐ C 5.46

☐ D 3.58

Question 5

Probability of getting 5 or 6 on a die is

☐ A 0.1

☐ B 0.2

☒ C 0.33

☐ D 0.5

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Question 6

If the probability of a defective bolt is 0.1, Find the Standard deviation for the defective bolts in a total of 400 :

☐ A 4

☒ B 6

☐ C 8

☐ D 10

Question 7

Level of significance is also called:

☐ A Power of the test

☒ B Size of the test

☐ C Level of confidence

☐ D Confidence coefficient

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Question 1

When H0

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Question 7

Level of significance is also called:

☐ A

Power of the test

☒ B

Size of the test

☐ C

Level of confidence☐ D

Question 8

65 bolts are defective out of 500, their probability is :

☐ A

3.56☒ B☐ C☐ D

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