Assignment 12

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2020-04-22, 23:59 IST.

1) Which of the following is (are) true about regression residual?

- Lower is better
- Higher is better
- A or B depends on situation

No, the answer is incorrect.

Score: 0

Accepted Answers:
Lower is better

2) A sample of 100 battery cell tested by the quality control unit find that length of life produced the following results: X=12 hours and o=3 hours.

where X stands for mean value and o indicates the standard deviation. Assuming that data are normally distributed, find out what percentage of battery cell are expected to have battery life more than 15 hours?

[Hint: Area under standard normal curve between z = 0 and z = 1 is 0.3413]

- 2.38%
- 15.87%
- 50%

No, the answer is incorrect.

Score: 0

Accepted Answers:
15.87%

3) The fitted regression equation is given by Y=12+0.5X. What is the value of residual at point X = 50, Y = 70?

- 33
- -33
- 67

No, the answer is incorrect.

Score: 0

Accepted Answers:
67

4) A sample of 100 battery cell tested by the quality control unit find that length of life produced the following results: X=12 hours and o=3 hours.

where X stands for mean value and o indicates the standard deviation. Assuming that data are normally distributed, find out what percentage of battery cell are expected to have battery life between 10 and 14 hours?

[Hint: Area under standard normal curve between z = 0 and z = 0.67 is 0.2467]

- 49.74%
- 15.87%
- 50%

No, the answer is incorrect.

Score: 0

Accepted Answers:
49.74%

5) In a regression analysis, if estimated parameter is equal to the hypothesized value of the parameter then calculated value of the t-test will be equal to 1 point

- 1.96
- 0
- 1

No, the answer is incorrect.

Score: 0

Accepted Answers:
0

6) Percentage of total variation of the dependent variable explained by set of independent variables is measured by

- Coefficient of correlation
- Coefficient of determination
- Standard errors of coefficients

No, the answer is incorrect.

Score: 0

Accepted Answers:
Coefficient of determination