



IASSC ICGB Practice Questions

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Question 1

Question Type: MultipleChoice

Cost of Poor Quality (COPQ) can be classified as Tangible (Visible) Costs and Hidden Costs.

Options:

A- True

B- False

Answer:

A

Question 2

Question Type: MultipleChoice

According to the definition of Rolled Throughput Yield which of the following items best describe the purpose of RTY?

Options:

A- A function of $Y=f(x)$

B- Determines incremental Growth

C- Isolates the increase throughput

D- Accounts for rejects and reworks

Answer:

D

Question 3

Question Type: MultipleChoice

Which statement(s) are correct for the Regression Analysis shown here? (Note: There are 2 correct answers).

Regression Analysis: HeatFlux versus %Cu, Thickness

The Regression Equation is

$$\text{HeatFlux} = 484 + 4.80 \%Cu - 24.2 \text{ Thickness}$$

Predictor	Coef	SE Coef	T	P
Constant	483.67	39.57	12.22	0.000
%Cu	4.7963	0.9511	5.04	0.000
Thickness	-24.215	1.941	-12.48	0.000

S = 8.93207 R-Sq = 85.9% R-Sq(adj) = 84.8%

Analysis of Variance

Source	DF	SS	MS	F	P
Regression	2	12607.6	6303.8	79.01	0.000
Residual Error	26	2074.3	79.8		
Total	28	14681.9			

Source	DF	Seq SS
%Cu	1	184.5
Thickness	1	12423.1

Unusual Observations

Obs	%Cu	HeatFlux	Fit	SE Fit	Residual	St Resid
1	40.6	271.80	274.74	5.08	-2.94	-0.40 X
22	36.3	254.50	230.91	2.39	23.59	2.74R

R denotes an observation with a large standardized residual.

X denotes an observation whose X value gives it large influence.

Options:

- A- This Regression is an example of a Multiple Linear Regression.
- B- This Regression is an example of Cubic Regression.
- C- %Cu explains the majority of the process variance in heat flux.
- D- Thickness explains over 80% of the process variance in heat flux.
- E- The number of Residuals in this Regression Analysis is 26.

Answer:

A, D

Question 4

Question Type: MultipleChoice

Due to excessive pollution, GREEN Solutions Inc. is considering subsidizing public transportation to work for its employees. According to the manager it takes an average weekday commute of 39 minutes with a Standard Deviation of 7 minutes for the employees to get to work while they use their personal vehicles for their office commute while the management set a policy of not more than 40 minutes for their daily one-way commute. A survey conducted one day on 70 employees showed an average of 34 minutes commuting time using the metro public transportation system with a Standard Deviation of 21 minutes. Assuming a Normal Distribution for the commute times by either personal or public transportation, Which option is true?

Options:

- A- The probability that they would arrive on time using personal vehicles is much higher than using the metro public transportation system (MPTS)
- B- The probability that they would arrive on time using the MPTS is much higher than using their personal vehicles
- C- The two probabilities are about the same excepting in one case the consistency is higher than the other
- D- We need to compile more data around weekends to incorporate for traffic differences
- E- When Standard Deviation is higher the probability goes down and so the MPTS is worse

Answer:

B

Question 5

Question Type: MultipleChoice

The generation of a Regression Equation is justified when we _____. (Note: There are 4 correct answers).

Options:

- A- Expect the relationship to be Linear between the output and inputs
- B- Know that there is a non-linear relationship between output and input(s)
- C- Need to understand how to control a process output by controlling the input(s)
- D- Experience several process defects and have no other way to fix hem
- E- When it is very expensive or too late to measure the output

Answer:

A, C, D, E

Question 6

Question Type: MultipleChoice

Significant variation in process performance is a consequence of several causes that can be classified using which of the terminologies shown. (Note: There are 2 correct answers).

Options:

- A- Common
- B- Random
- C- Uneducated
- D- Special
- E- Vital

Answer:

A, D

Question 7

Question Type: MultipleChoice

A main benefit of using a Multi-Vari Chart is it provides a visual presentation of two-way interactions.

Options:

- A- True
- B- False

Answer:

A

Question 8

Question Type: MultipleChoice

The term FMEA is an abbreviation for Failures Measure Effective Automation.

Options:

- A- True
- B- False

Answer:

B

Question 9

Question Type: MultipleChoice

The Accuracy of a Measurement System addresses _____.

Options:

- A- Stability, Bias & Linearity
- B- Repeatability & Reproducibility
- C- Stability & Sensitivity
- D- Precision & Sensitivity

Answer:

A

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