ASQ CSSBB Mock Exam

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Question 1

Question Type: MultipleChoice

A population is bimodal with a variance of 5.77. One hundred samples of size 30 are randomly collected and the 100 sample means are calculated. The standard deviation of these sample means is approximately:

Options:

A- 5.77
B- 2.40
C- 1.05
D- 0.44
E- 0.19

Answer:

E

Question 2

Question Type: MultipleChoice

Samples of size n=36 are randomly selected from a population with mean = 125 and variance 12. Find the variance of the distribution of sample means.

Options:

A- .333
B- .577
C- 2
D- 3.464
E- 12

Answer:

A

Question 3

Question Type: MultipleChoice

A random sample is selected from a population of measurements. The mean of the sample is not equal to the mean of the population. This is due to:

Options:

A- Type I error
B- Type II error
C- sampling error
D- the population is not normal
E- measurements were not exact

Answer:

C

Question 4

Question Type: MultipleChoice

In a series of linked processes and associated feedback loops the product or service flows _____ and the information flows _____.

Options:

A- rapidly, slower
B- downstream, upstream
C- evenly, digitally
D- sooner, later
E- to the customer, from the supplier
F- researching cycle times for similar processes within the organization

Answer:

B

Question 5

Question Type: MultipleChoice

A random sample of 2500 printed brochures is found to have a total of three ink splotches. The rate of ink splotches in PPM is:

Options:

A- 1,000,000 2500 3
B- 2500 1,000,000 3
C- 3 2500 1,000,000
D- the mean, median and mode of a normal distribution all have the same value

Answer:

C

Question 6

Question Type: MultipleChoice

Find the value of (7) in the ANOVA table.

Assume:

$$\alpha = 0.10;$$

ANOVA Table

Source	SS	df	MS	F ratio	F crit	P-value
x	1.48	1	(1)	(2)	(3)	(4)
Y	18.6	1	(5)	(6)	(7)	(8)
xxY	12.2	1	(9)	(10)	(11)	(12)
Error	2.1	4	(13)			

Options:

A- 16.4

B- 3.2
C- 18.6
D- 23.2
E- 4.54
F- 12.2
G- 0.525
H- 2.82
I- 1.48
J- 35.4
K- 0.10<P<1
L- 0.05<P<0.10
M- 0.01<P<0.05
N- 0.005<P<0.01
O- 0<P<0.005

Answer:

E

Question 7

Question Type: MultipleChoice

An full factorial experiment has three factors. Each factor has three levels. The number of test combinations or runs is:

Options:

A- 9
B- 6
C- 27
D- 36
E- 33

Answer:

C

Question 8

Question Type: MultipleChoice

If the probability that event A occurs is .51, the probability that event B occurs is .64 and events A and B are statistically independent then:

Options:

A- A and B are mutually exclusive
B- the probability that both A and B occur is 0.3264
C- A and B can't both occur
D- the probability that A occurs is 1-(probability that B occurs)
E- A and B have different standard deviations

Answer:

B

Question 9

Question Type: MultipleChoice

The null hypothsis should be:

Options:

A- rejected
B- not rejected
C- accepted

Answer:

A