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Topic Break Down

Topic	No. of Questions
Topic 1, Volume A	99
Topic 2, Volume B	127
Total	226

QUESTION NO: 1

Calculate the main effect of factor A:

	A	B	Res.
1	-	-	20
2	-	+	30
3	+	-	40
4	+	+	50

- A. 20
- B. 25
- C. 30
- D. 40
- E. none of the above

ANSWER: A

QUESTION NO: 2

The number of factors, levels and replications:

- A. 3, 3, 3
- B. 2, 3, 2

- C. 3, 2, 2,
- D. 3, 2, 3
- E. 2, 2, 2
- F. none of the above

ANSWER: D

QUESTION NO: 3

The primary metric for a project is reduced cost for process A . Baseline data might include:

- A. current maintenance costs
- B. current selling price for the products or services output by process A
- C. current suggestions from stakeholders of process A
- D. all the above
- E. none of the above

ANSWER: A

QUESTION NO: 4

This will be a:

- A. left-tail test
- B. right-tail test
- C. two-tail test

ANSWER: B

QUESTION NO: 5

The following is a set of individual measurements:

3 5 4 5 6 3 4 3 2 4 5 6 5 7 6 4 5 5 8 7 6 6 7 7 4

Find the control limits for the individuals chart.

- A. .7 and 11.2

- B. 1.6 and 8.6
- C. 2.7 and 7.5
- D. none of the above

ANSWER: D

QUESTION NO: 6

A ____ from a sample is used to estimate a population _____. The two words that best fill these blanks are:

- A. item, value
- B. value, statistic
- C. statistic, parameter
- D. parameter, value
- E. parameter, statistic

ANSWER: C

QUESTION NO: 7

A set of data from a process has 8 readings per sample and 50 samples. The mean of the 50 sample means is 12.62. The mean of the 50 ranges is 0.18. A customer requires that SPC charts be done on their forms which have spaces for only 5 readings per sample. What should be the UCL and LCL for the new averages chart?

- A. 12.53 and 12.71
- B. 12.58 and 12.66
- C. 11.61 and 13.63
- D. none of the above

ANSWER: A

QUESTION NO: 8

= 0.05 A machine tool vender wants to sell an injection molding machine. The current machine produces 3.2% defectives. A sample of 1100 from the vender's machine has 2.9% defective. Do these numbers indicate that the proposed machine has a lower rate of defectives?

- A. yes
- B. no

ANSWER: A

QUESTION NO: 9

“Robust design” refers to the ability of the product or service:

- A.** to function the same in different conditions
- B.** to remain strong
- C.** to last a long time
- D.** to have a high reliability

ANSWER: A

QUESTION NO: 10

This QFD matrix was used in the design process for a ball point pen. What symbol is appropriate for the square labeled 5?

Key:
 Strong= ⊙
 Moderate= ○
 Weak= Δ

	Barrel design	Cartridge design	Ink material	Clip design			
Inexpensive	1	2	3	4			
Leak proof	5	6	7	8			
Won't smear	9	10	11	12			
Easy to grip	13	14	15	16			
Clip won't break	17	18	19	20			

- A. Δ
- B. ⊙
- C. ○
- D. none of the above

- A. Option A
- B. Option B
- C. Option C
- D. Option D

ANSWER: A

QUESTION NO: 11

What is the value of the test statistic?

- A. 0.898
- B. 1.251
- C. 0.429
- D. 3.57
- E. none of the above

ANSWER: E

QUESTION NO: 12

Find the value of (11) 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)			

- 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
- L. 0.05
- M. 0.01
- N. 0.005
- O. 0

ANSWER: E

QUESTION NO: 13

This table displays the inventory of fasteners in a storage cabinet. An item is selected at random from the fastener cabinet. Find the approximate probability it is size $3/4$.

	size			
	.500	.625	.750	.875
Nut	146	300	74	41
Washer	280	276	29	32
Bolt	160	214	85	55

- A. .85
- B. .185
- C. .03

- D. .11
- E. none of the above

ANSWER: D

QUESTION NO: 14

An example of a project metric would be:

- A. the decrease in defect occurrence
- B. the decrease in product cost
- C. the decrease in cycle time
- D. all the above

ANSWER: D

QUESTION NO: 15

Find the value of (6) 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)			

- 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<>

L. 0.05<>

M. 0.01<>

N. 0.005<>

O. 0<>

ANSWER: J