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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

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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: 2

"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: 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

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: 5

The number of factors, levels and replications:

A. 3, 3, 3

B. 2, 3, 2
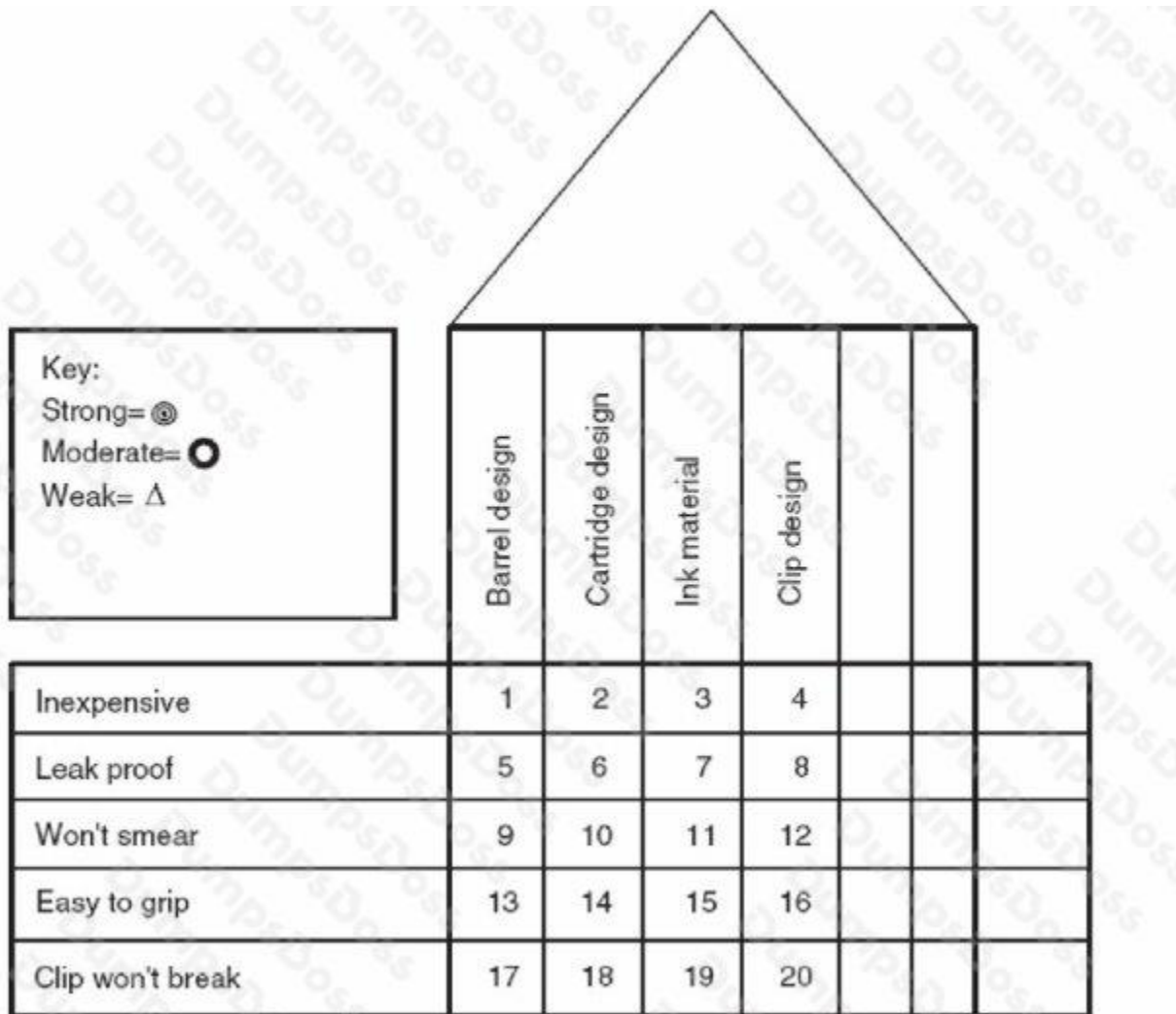
C. 3, 2, 2,

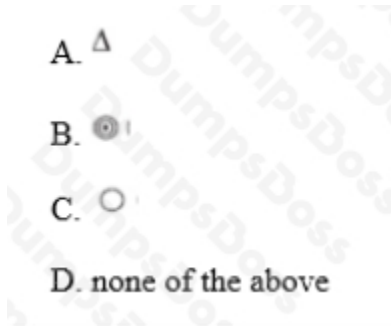**D.** 3, 2, 3

E. 2, 2, 2

F. none of the above

ANSWER: D

QUESTION NO: 6

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= O
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. △

B. ◉

C. ○

D. none of the above

A. Option A

B. Option B

C. Option C

D. Option D

ANSWER: A

QUESTION NO: 7

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: 8

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: 9

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 tbe 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: 10

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: 11

= 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: 12

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

QUESTION NO: 13

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: 14

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: 15

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This will be a:

A. left-tail test

B. right-tail test

C. two-tail test

ANSWER: B