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Certified Six Sigma Black Belt

ASQ CSSBB

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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

P(A) = .42, P(B) = .58, P(A&B) = .10 Find P(A or B).

A. .90

B. 1.00

C. .24

D. none of the above

ANSWER: A

QUESTION NO: 2

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P(A) = .42, P(B) = .58 P(A&B) = .10. Are A and B mutually exclusive (or disjoint)?

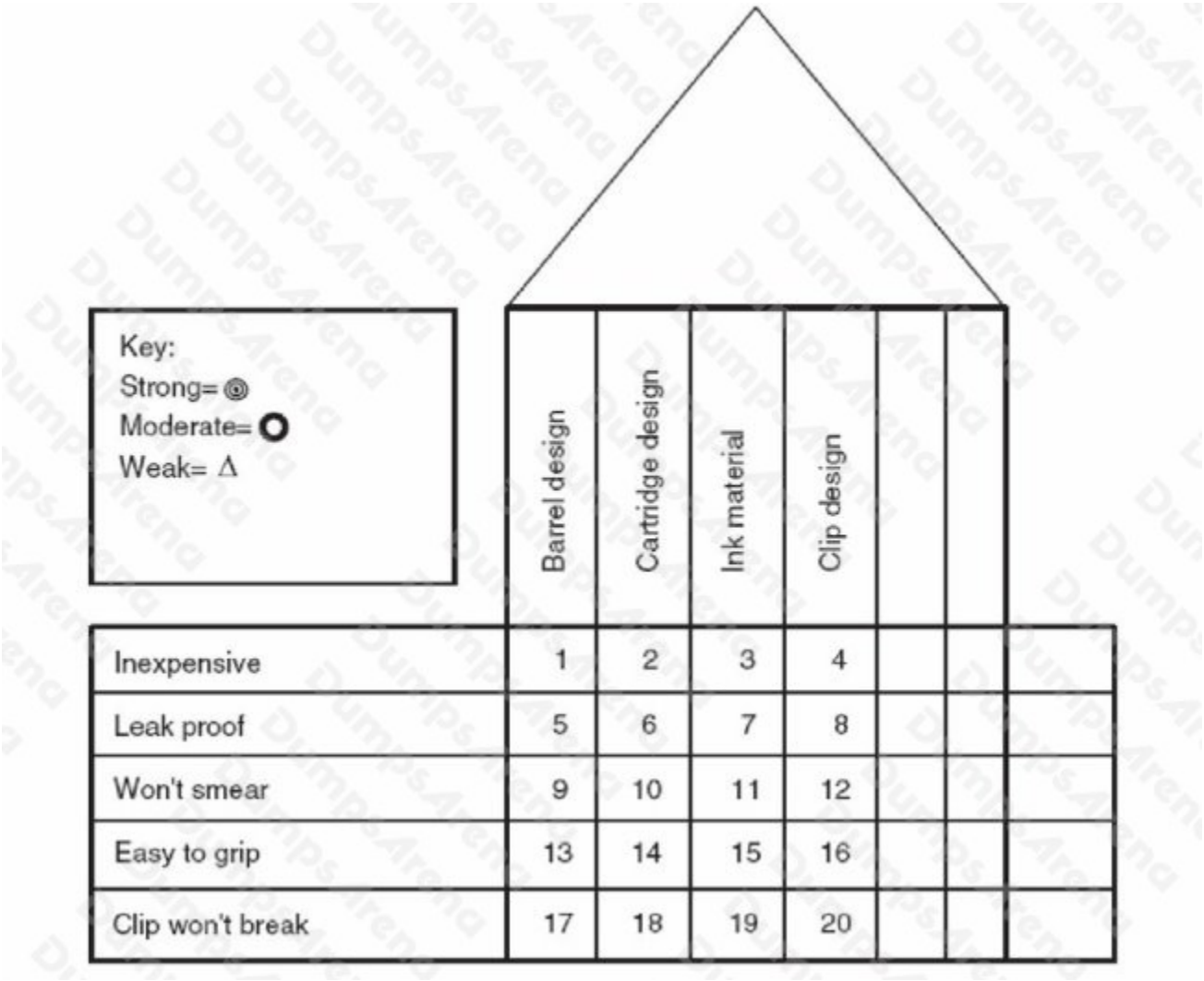
A. yes

B. no

ANSWER: B

QUESTION NO: 3

This QFD matrix was used in the design process for a ball point pen. What symbol is appropriate for the square labeled 12?



A. Δ

B.

C.

D. none of the above

A. Option A

B. Option B

C. Option C

D. Option D

ANSWER: D

QUESTION NO: 4

If item A is more likely to be detected than item B which will have the highest Detection value?

A. item A

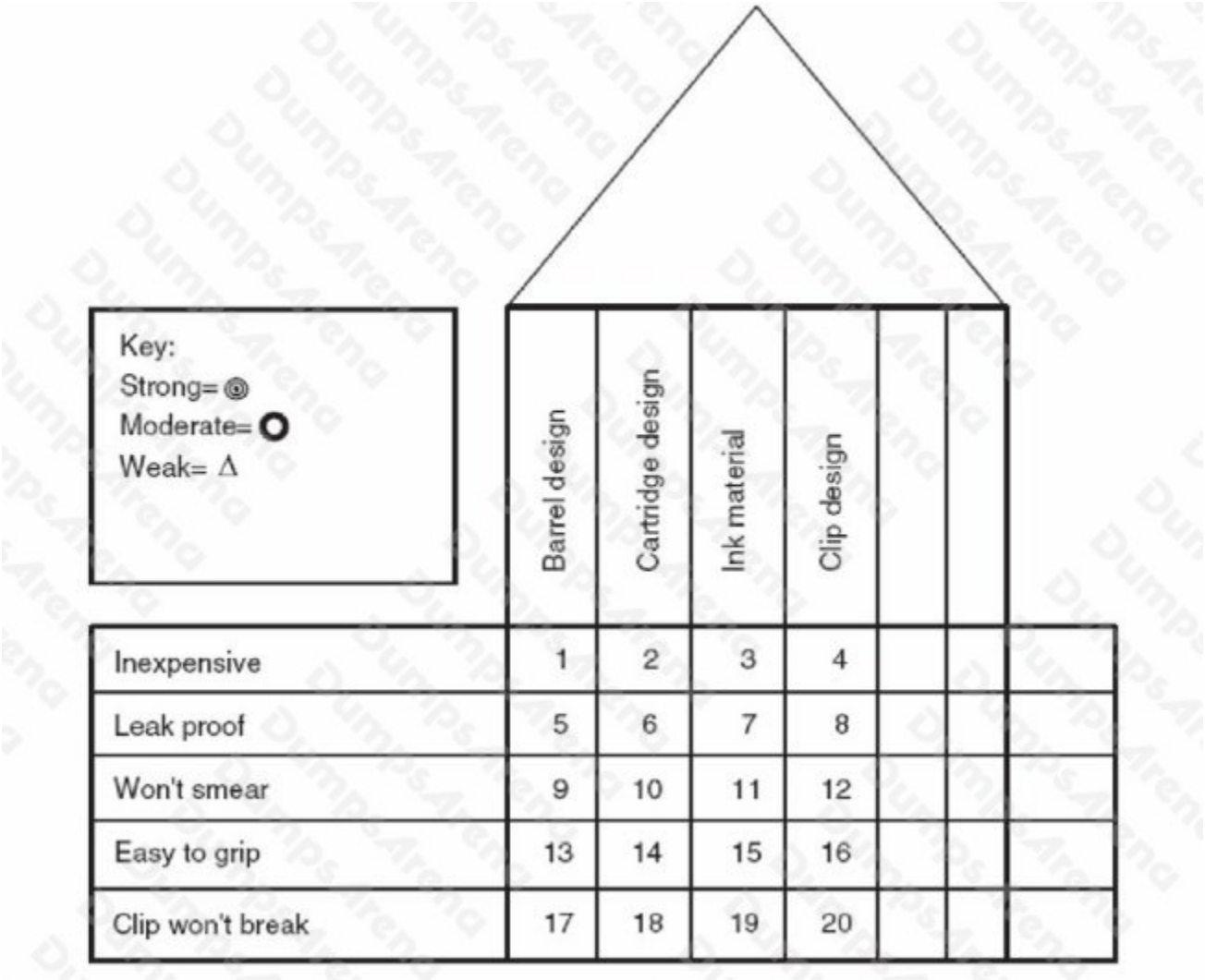
B. item B

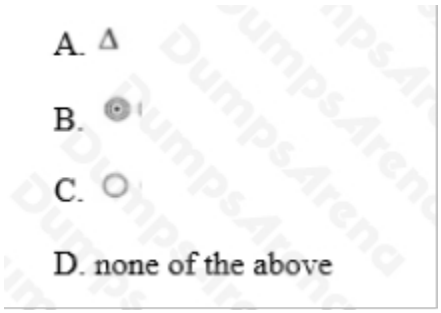
C. cannot be determined

ANSWER: B

QUESTION NO: 5

This QFD matrix was used in the design process for a ball point pen. What symbol is appropriate for the square labeled 11?





A. Option A

B. Option B

C. Option C

D. Option D

ANSWER: B

QUESTION NO: 6

If item A is more likely to be detected than item B which will have the highest Severity value?

A. item A

B. item B

C. cannot be determined

ANSWER: C

QUESTION NO: 7

A frequent cause of system sub optimization is:

A. optimizing individual processes

B. failing to draw a system flow chart

C. using data with outliers

D. failing to consider the normal distribution

ANSWER: A

QUESTION NO: 8

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A team wants a technique for displaying the connection between various customer needs and various features on a product. They should use:

A. written and diagrammed work instructions

B. flow charts and process maps

C. cause and effect diagrams

D. Pareto chart

E. relationship matrix

ANSWER: E

QUESTION NO: 9

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)			

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: 10

Causes in a cause and effect diagram often include management, measurement systems, mother nature and the four standard causes:

A. man, material, methods, machines

B. man, manufacturing, methods, material

C. marketing, methods, material, machines

D. man, material, millennium, machines

E. none of the above

ANSWER: A

QUESTION NO: 11

The temperature in a storage location is logged once every 30 minutes. The control chart that is appropriate for displaying these values is:

A. x-bar and R

B. median

C. individual and moving range

D. p

E. np

F. u

G. c

ANSWER: C

QUESTION NO: 12

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The word takt is closest to the theory of constraints word:

A. drum

B. buffer

C. rope

D. constraint

ANSWER: A

QUESTION NO: 13

A project whose definition does not include performance metrics:

A. will typically be short term

B. use statistical inference

C. have a high risk of failure

D. should not be approved

E. none of the above

ANSWER: D

QUESTION NO: 14

Is this a left-tail, right-tail or two-tail test?

A. no

B. left-tail

C. right-tail

D. two-tail

ANSWER: C

QUESTION NO: 15

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

A. 9

B. 6

C. 27

D. 36

E. 33

ANSWER: C