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QUESTION: 219
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: D

QUESTION: 220
If the value of the test statistic had been 0.185, what action should have been taken regarding the null hypothesis?

A. rejected
B. accepted
C. none of the above
D. all of the above

Answer: C

QUESTION: 221
If the value of the test statistic had been 7.03, what action should have been taken regarding the null hypothesis?

A. rejected
B. accepted
C. not rejected
D. none of the above

Answer: A

Section 16: Sec Sixteen (222 to 224)
Details:

Here is an experimental design with results:

	A	B	C	Responses		
1	–	–	+	10	11	10
2	–	+	–	22	20	23
3	+	+	+	34	36	37
4	+	–	–	26	25	25

QUESTION: 222
This experimental design is:

A. full factorial
B. half factorial
C. quarter factorial
D. none of the above

Answer: B

QUESTION: 223
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: 224
An indication of the experimental error is available because the design has:

A. multiple replications
B. multiple levels
C. multiple factors

Answer: A

QUESTION: 225
The average number of defects is 21.6. Find the upper control limit for the c-chart.

A. 26.4
B. 24.6
C. 18.8
D. 26.2
E. none of the above

Answer: E

QUESTION: 226
An x-bar and R chart is used to monitor a process. One week ago a new type of raw material was introduced and since that time 60 points have been plotted on the xbar chart and all are in the middle third of the chart. The corresponding 60 points on the R chart are all below the average range. This indicates that:

A. the operator has been plotting the points incorrectly
B. it is time to recalibrate the gage used
C. it is time to recalculate the control limits
D. the material manager should be asked to go back to the previous raw material so the charts will more accurately reflect the process

Answer: C

QUESTION: 227
Here is a partial ANOVA table. Use $\alpha = 0.05$.

Source	SS	df	MS	Fstatistic	Fcritical
A	1200	6	x	y	z
B	900	6			
A × B	180	3			
Error	100	10			

The values of x, y and z should be:

A. 200, 20, 3.22
B. 12, 1.2, 4.06
C. 200, 20, 4.06
D. none of the above

Answer: A

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