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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 \bar{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 \bar{x} 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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