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NPTEL

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Courses » Six Sigma

Announcements

Course

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Unit 10 - Week 9

Course outline

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Lecture 29
ANOVA in DOE

Lecture 30
Benchmarking
in Six Sigma

Lecture 31 How
to Benchmark

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Quiz : Week 9:
Assignment
(Jan 2018)

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Week 9: Assignment (Jan 2018)

The due date for submitting this assignment has passed. **Due on 2018-03-29, 23:59 IST**
As per our records you have not submitted this assignment.

Total No. of Questions: 15. Each question carries one point. All questions are objective type. Only one answer is correct per numbered item.

1) Marks obtained by students in an exam are analysed to see the effect of their attendance in **1 point** the class. Factors such as students' IQ level and their home study hours also impact their performance. Which of these variables will act as the control variable?

- Marks obtained
- Attendance
- Students' IQ level
- All the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Attendance

2) An experimentation has three treatments and three replications. Treatment sum of squares **1 point** and error sum of squares be 9630 and 690. Calculate total mean squares.

- 1290
- 8940
- 10320
- 5160

No, the answer is incorrect.

Score: 0

Accepted Answers:

1290

3) From the data in question 2, calculate F-statistics **1 point**

- 13.96
- 41.87
- 14.96
- 42.87

No, the answer is incorrect.

Score: 0

Accepted Answers:

41.87

4) In ANOVA experimentation, experiments are replicated more than once to randomize the **1 point** noise factor.

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

5) Increment in variability due to chance

- Decreases the value of F statistic
- Increases the value of F statistic
- Has no effect on F statistic
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Decreases the value of F statistic

6) Select the correct option

- Post-hoc test is used to determine whether significant differences were observed between all levels of independent variables
- F statistic is used to determine whether significant differences were observed between all levels of independent variables
- Post-hoc test and F statistic, both can be used to determine whether significant differences were observed between all levels of independent variables
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Post-hoc test is used to determine whether significant differences were observed between all levels of independent variables

7) ANOVA statistically compares Variance

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

8) Reengineering the business systems does not come under benchmarking

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

9) Recalibrate & recycle the process belongs to

- The Xerox 12-step benchmarking process
- The Bristrol-Myers & Baxter International 7-step benchmarking process
- The Motorola 5-step benchmarking process
- None of the above



1 point

1 point

1 point

1 point

1 point

No, the answer is incorrect.

Score: 0

Accepted Answers:

The Motorola 5-step benchmarking process

10) Which one of these does not belong to the Bristol-Myers & Baxter International 7-step benchmarking process? **1 point**

- Collect data during a site visit
- Analyze data & integrate results into action
- Implement recommendations
- Recalibrate benchmarks

No, the answer is incorrect.

Score: 0

Accepted Answers:

Analyze data & integrate results into action

11) Functional benchmarking involves multi-site comparison of processes and performance **1 point**

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

12) Select the correct option **1 point**

- Benchmarking comes under design phase of DMAIC
- Benchmarking comes under analyse phase of DMAIC
- Benchmarking comes under improve phase of DMAIC
- Benchmarking comes under control phase of DMAIC

No, the answer is incorrect.

Score: 0

Accepted Answers:

Benchmarking comes under analyse phase of DMAIC

13) Which of the following comes under analysis phase of the Xerox benchmarking process **1 point**

- Determining current performance gap
- Determining data collection method
- Establishing the financial goals
- Communication financial and gain acceptance

No, the answer is incorrect.

Score: 0

Accepted Answers:

Determining current performance gap

14) Increasing activities that are considered non-value-added is one of the objectives of continuous improvement **1 point**

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

15) Benchmarking studies look for **1 point**

1. How are the 'best' processes practiced?



2. Results of practices

Select correct option

- Only 1
- Only 2
- 1 and 2 both
- None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

1 and 2 both



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