

Unit 12 - week 11

Course outline

How does an NPTEL online course work?

week 1

week 2

week 3

week 4

week 5

week 6

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week 8

week 9

week 10

week 11

Lecture 51:Forecasting: Methods IV

Lecture 52:Forecasting: Methods V

Lecture 53:Quality Control: Introduction

Lecture 54:Quality Control: Fundamentals

Lecture 55:Quality Control: SPC

Quiz : Assignment 11

Solution of Assignment 11

week 12

Download Videos

Weekly Feedback

Assignment 11

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-04-15, 23:59 IST.

Assignment 11

1) For following data, the seasonality index for four different seasons will be

1 point

Year	1 st season	2 nd season	3 rd season	4 th season
2016	75	60	54	59
2017	86	65	63	80
2018	90	72	66	85
2019	100	78	72	93

1.17, 0.91, 0.85, 1.05

1.2, 1.75, 2.1, 3

0.1, 1.3, 2.5, 1.7

0.8, 1.7, 0.9, 1.8

No, the answer is incorrect.

Score: 0

Accepted Answers:
1.17, 0.91, 0.85, 1.05

2) Parameter used as a measure of forecast error is

1 point

Trend value

Mean absolute deviation

Cyclic value

Moving average

No, the answer is incorrect.

Score: 0

Accepted Answers:
Mean absolute deviation

3) Quality can be better understood based on the perception of

1 point

Performance and expectation

Price and brand

Resale value

All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
Performance and expectation

4) Non-measurable quality characteristics are categorized as

1 point

Variable

Attribute

Derived

All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
Attribute

5) The simple regression equation to show the relationship between the expenditure on the advertisement of three newly opened coaching center at different locations and number of student registered for first batch (table below) will be

1 point

Location	Amount spent on advertisement (Rs in thousands)	Number of students
Delhi	65	250
Pune	45	200
Mumbai	40	150

$y = 25.3 + 4.73x$

$y = 21.5 + 3.57x$

$y = 25.3 - 4.73x$

$y = 21.5 - 3.57x$

No, the answer is incorrect.

Score: 0

Accepted Answers:
 $y = 21.5 + 3.57x$

6) Tracking signal can be calculated using

1 point

Cumulative error only

Mean absolute error only

Both mean absolute error and mean absolute percentage

Both cumulative error and mean absolute error

No, the answer is incorrect.

Score: 0

Accepted Answers:
Both cumulative error and mean absolute error

7) The quarter which shows the maximum positive value of tracking signal (for following data) is

1 point

Quarter	Actual demand	Forecast demand
1	110	90
2	105	120
3	120	130
4	150	130

4

3

2

1

No, the answer is incorrect.

Score: 0

Accepted Answers:
1

8) Correct statement for statistical process control is

1 point

Variation cannot be eliminated

Low variation in manufacturing process results in more wastage

High variation helps to make product competitive

Variation in a process is not statistical

No, the answer is incorrect.

Score: 0

Accepted Answers:
Variation cannot be eliminated

9) Quality control technique based on the 80/20 concept is

1 point

Ishikawa

Flow chart

Pareto

Scatter diagram

No, the answer is incorrect.

Score: 0

Accepted Answers:
Pareto

10) Major driver of quality is

1 point

Competition in market

Threat for survival

Promise for greater profit

All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
All of the above