

Unit 3 - Week2

Course outline

How does an NPTEL online course work?

Week 1

Week2

- Product Design
- Introduction To Forecasting
- Time Series Forecasting
- Time Series Forecasting- Exponential Smoothing I (Brief)
- Time Series Forecasting- Exponential Smoothing II (Classification)
- Quiz : Assignment 2
- Solution of Assignment 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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Assignment 2

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

Due on 2020-02-12, 23:59 IST.

- 1) Which of the following is not a phase of product development? 1 point
- Product Planning
 - Incubation
 - Product Engineering
 - Pilot Production

No, the answer is incorrect.
Score: 0
Accepted Answers:
Incubation

- 2) Which of the following is not a typical team involved in concurrent engineering? 1 point
- Program Management Team
 - Technical Team
 - Design Build Team
 - Marketing Team

No, the answer is incorrect.
Score: 0
Accepted Answers:
Marketing Team

- 3) Which of the following is a basic category of forecasting? 0 points
- Extrapolative
 - Causal
 - Qualitative
 - Case Study

No, the answer is incorrect.
Score: 0
Accepted Answers:
Case Study

- 4) Which of the following is not a typical characteristics of time series data? 1 point
- Trend
 - Random
 - Seasonal
 - Cyclic fluctuation

No, the answer is incorrect.
Score: 0
Accepted Answers:
Random

- 5) Refer following table : 1 point
- | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|
| Period | 1 | 2 | 3 | 4 | 5 | 6 |
| Demand | 100 | 102 | 113 | 124 | 125 | 129 |

Consider a three period moving average method. What is the forecast for 7th period?

- 126
- 105
- 113
- 129

No, the answer is incorrect.
Score: 0
Accepted Answers:
126

- 6) Refer following table : 1 point
- | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|
| Period | 1 | 2 | 3 | 4 | 5 | 6 |
| Demand | 100 | 102 | 113 | 124 | 125 | 129 |

Consider a three period moving average method. Weights are 0.5, 0.3 and 0.2. What is the forecast for 7th period?

- 126.8
- 126
- 125.3
- 125

No, the answer is incorrect.
Score: 0
Accepted Answers:
126.8

- 7) Which of the following can be possible weights for a moving average method? 1 point
- 0.4, 0.3 and 0.2
 - 0.4, 0.35 and 0.25
 - 0.5, 0.3 and 0.1
 - None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
0.4, 0.35 and 0.25

- 8) Which of the following is correct? Here, α is smoothing constant. 1 point
- New Base = Previous Base + α (New Demand + Previous Base)
 - New Base = α (New Demand + Previous Base)
 - New Base = Previous Base + α (New Demand - Previous Base)
 - New Base = α (New Demand - Previous Base)

No, the answer is incorrect.
Score: 0
Accepted Answers:
New Base = Previous Base + α (New Demand - Previous Base)

- 9) Which of the following is correct? 1 point
- Value of smoothing constant can be from -1 to +1.
 - Value of smoothing constant can be from $-\infty$ to $+\infty$.
 - Value of smoothing constant can be from 0 to 1.
 - Value of smoothing constant can be 0 to $+\infty$.

No, the answer is incorrect.
Score: 0
Accepted Answers:
Value of smoothing constant can be from 0 to 1.

- 10) A forecasting model can use 1 point
- Only one smoothing constant
 - Maximum two smoothing constant
 - Maximum three smoothing constant
 - Any number of smoothing constants.

No, the answer is incorrect.
Score: 0
Accepted Answers:
Maximum three smoothing constant