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# Unit 5 - Unit V : Non-parametric statistical methods & Time series analysis



## Assessment - 14

**The due date for submitting this assignment has passed.**

**Due on 2023-06-25, 23:59 IST.**

**As per our records you have not submitted this assignment.**

Time Series-I

1) Identify the component of time series in “Increase in prices of vegetables due to floods”. ***1 point***

- Secular trend
- Seasonal component
- Cyclical component
- Irregular component

No, the answer is incorrect.
Score: 0
Accepted Answers:
*Irregular component*

2) The variations repeat themselves after one year interval of time is known as ***1 point***

- cyclical variations
- Seasonal variations
- Irregular variations
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
*cyclical variations*

3) The variations repeat themselves after every season ***1 point***

- cyclical variations
- seasonal variations
- Irregular variations
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
*seasonal variations*

4) The general problem of finding equations of approximating curves which fit a given data is called_____. ***1 point***

- Curve fitting
- Approximating curve.
- Empirical relation.
- Linear form

No, the answer is incorrect.
Score: 0
Accepted Answers:
*Curve fitting*

5) Cyclic fluctuations are caused by _____. ***1 point***

- Flood.
- War
- Strike
- None of the above

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

6) Seasonal variations in a time series are computed using **1 point**

- Ratio to trend method
- Method of least squares
- Method of moving averages
- Periodogram analysis

No, the answer is incorrect.
Score: 0
Accepted Answers:
*Ratio to trend method*

7) Which of the following is not a method of measuring trend in time series data? **1 point**

- Method of semi averages
- method of growth curves
- Link relative method
- Moving average method

No, the answer is incorrect.
Score: 0
Accepted Answers:
*Link relative method*

8) The component of time series attached to long term variations is termed as **1 point**

- seasonal variations
- cyclical variation
- irregular variation
- secular trend

No, the answer is incorrect.
Score: 0
Accepted Answers:
*secular trend*

9) Which of the following is an example of time series problem? **1 point**

1. Estimating number of hotel rooms booking in next 6 months.
2. Estimating the total sales in next 3 years of an insurance company.
3. Estimating the number of calls for the next one week.

- Only 3
- 1 and 2
- 2 and 3
- 1,2 and 3

No, the answer is incorrect.
Score: 0
Accepted Answers:
*1,2 and 3*

10) Which of the following is not an example of a time series model? **1 point**

- Naive approach
- Exponential smoothing
- Moving Average
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
*None of the above*

11) Which of the following can't be a component for a time series plot? **1 point**

- Seasonality
- Trend
- Cyclical
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
*None of the above*

12) Which of the following is relatively easier to estimate in time series modeling? **1 point**

- Seasonality
- Cyclical
- No difference between Seasonality and Cyclical
- all the above

No, the answer is incorrect.

Score: 0
Accepted Answers:
*Seasonality*

13) Imagine, you are working on a time series dataset. Your manager has asked you to build a highly accurate model. You started to build two types of models, Model 1: Decision Tree model. Model 2: Time series regression model. At the end of evaluation of these two models, you found that model 2 is better than model 1. What could be the possible reason for your inference? **1 point**

- Model 1 couldn't map the linear relationship as good as Model 2
- Model 1 will always be better than Model 2
- You can't compare decision tree with time series regression
- None of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
*Model 1 couldn't map the linear relationship as good as Model 2*

14) An orderly set of data arranged in accordance with their time of occurrence is called **1 point**

- Arithmetic series
- Harmonic series
- Geometric series
- Time series

No, the answer is incorrect.
Score: 0
Accepted Answers:
*Time series*

15) A time series consists of: **1 point**

- Short-term variations
- Long-term variations
- Irregular variations
- All the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
*All the above*