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SASTRA » Numerical & Statistical Analysis

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

Course outline	Assessment - 14	
UNIT - I : Transcendental Polynomial & Simultaneous	The due date for submitting this assignment has passed. Due on 2023-06-25, As per our records you have not submitted this assignment. Time Series-I	23:59 IST.
equations and Interpolations ()	 Identify the component of time series in "Increase in prices of vegetables due to floods". Secular trend 	1 point
UNIT - II : Numerical differentiation and H Integration ()	 Seasonal component Cyclical component Irregular component No, the answer is incorrect. Score: 0 	
UNIT - III : Numerical Solutions of ODE	Accepted Answers: Irregular component 2) The variations repeat themselves after one year interval of time is known as © cyclical variations	1 point
UNIT - IV : Statistical distributions and Test of hypothesis	Seasonal variations Irregular variations None of the above No, the answer is incorrect. Score: 0 Accepted Answers: cyclical variations	
Unit V : Non- parametric statistical methods & Time series analysis ()	3) The variations repeat themselves after every season cyclical variations seasonal variations Irregular variations None of the above	1 point
Lecture 1 : Advantages and disadvantages of Non parametric methods (week 13) (unit? unit=74&lesson=75)	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
Lecture 2 : Some non- parametric methods (week 13) (unit? unit=74&lesson=76) Quiz: Assessment 13 (assessment?	Curve fitting Approximating curve. Empirical relation. Linear form No, the answer is incorrect. Score: 0 Accepted Answers: Curve fitting	
name=83) Lecture 3 : Sequential Analysis, Sequential Probability Ratio test (week 14) (unit? unit=74&lesson=77)	5) Cyclic fluctuations are caused by Flood. War Strike None of the above	1 point
Lecture 4 : Sequential Probability Ratio test	No, the answer is incorrect. Score: 0 Accepted Answers: Flood.	

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(cont.,) (week 14) (unit? unit=74&lesson=78) Lecture 5 : Time series analysis - Introduction (week 14) (unit? unit=74&lesson=79) Lecture 6 : Time series Analysis - trends(week 14) (unit? unit=74&lesson=80) Quiz: Assessment - 14 (assessment? name=90) Lecture 7 : Principal Component Analysis (week 15) (unit? unit=74&lesson=81) Lecture 8 : PCA (cont.,) (week 15) (unit? unit=74&lesson=82) Quiz: Assessment - 15 (assessment? name=87)

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
 Estimating number of hotel rooms booking in next 6 months. 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	
0 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
O 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.	

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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 1 puild 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?	oint
O 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 pe	oint
O Arithmetic series	
Harmonic series	
Geometric series	
O Time series	
No, the answer is incorrect. Score: 0	
Accepted Answers: Time series	
15) A time series consists of:	oint
O Short-term variations	
O Long-term variations	
O Irregular variations	
All the above	
No, the answer is incorrect. Score: 0	
Accepted Answers: All the above	





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