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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 15	
UNIT - I: Transcendental Polynomial & Simultaneous equations and  Interpolations ()	The due date for submitting this assignment has passed.  As per our records you have not submitted this assignment.  Time series-II  1) The systematic components of time series which follow regular pattern of variations are called:  Signal	Due on 2023-07-02, 23:59 IST.
UNIT - II : Numerical differentiation and Integration ()	Noise Additive model Multiplicative model No, the answer is incorrect. Score: 0 Accepted Answers:	
UNIT - III : Numerical Solutions of ODE ⊞ ()	Signal  2) The unsystematic sequence which follows irregular pattern of variations is called:  Linear  Non linear	1 point
UNIT - IV : Statistical distributions and Test of hypothesis  ①	<ul> <li>Noise</li> <li>Signal</li> <li>No, the answer is incorrect.</li> <li>Score: 0</li> <li>Accepted Answers:</li> <li>Noise</li> </ul>	
Unit V : Non- parametric statistical methods & Time series analysis ()	<ul> <li>3) In time series seasonal variations can occur within a period of:</li> <li>Four years</li> <li>One year</li> <li>Three years</li> <li>Nine years</li> </ul>	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: One year  4) Wheat crops badly damaged on account of rains is:  Cyclical movement	1 point
Lecture 2 : Some non- parametric methods (week 13) (unit? unit=74&lesson=76)	Random movement secular trend seasonal movement No, the answer is incorrect.	
Quiz: Assessment – 13 (assessment? name=83)	Score: 0 Accepted Answers: Random movement	
Lecture 3 : Sequential Analysis, Sequential Probability Ratio test (week 14) (unit? unit=74&lesson=77)	<ul> <li>5) Indicate which of the following an example of seasonal variations is</li> <li>Death rate decreased due to advance in science</li> <li>Sale of umbrella during rainy days</li> <li>Recovery in business</li> <li>Sudden causes by wars</li> </ul>	1 point
Lecture 4 : Sequential Probability Ratio test	No, the answer is incorrect. Score: 0 Accepted Answers: Sale of umbrella during rainy days	

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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) A complete cycle consists of a period of:	1 point
Prosperity and depression	
Prosperity and recovery	
Prosperity and recession	
Recession and recovery	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Prosperity and recession	
7) A cycle is complete, if it passes through all the	1 point
	, point
○ Two stages ○ Three stages	
Four stages	
Difficult to tell	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: Four stages	
, our stages	
8) In a straight line equation $Y = a + bX$ ; a is the:	1 point
○ X-intercept	
○ Slope	
○ Y-intercept	
O None of them	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Y-intercept	
0/ 1 ( '14"	
9) In a straight line equation $Y = a + bX$ ; b is the:	1 point
Y-intercept	
Slope X-intercept	
None of them	
Trong of them	
No the answer is incorrect	
No, the answer is incorrect. Score: 0	
Score: 0 Accepted Answers:	
Score: 0	
Score: 0 Accepted Answers:	1 point
Score: 0 Accepted Answers: Slope	1 point
Score: 0 Accepted Answers: Slope  10) In semi averages method, we decide the data into:	1 point
Score: 0 Accepted Answers: Slope  10) In semi averages method, we decide the data into:  Two parts	1 point
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additive model	
O Cyclic model	
multiplicative model	
○ Irregular model	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
multiplicative model	
14) The method of moving average is used to find the:	1 point
○ trends	
Measure the seasonal variations	
Secular trend	
O None of them	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Secular trend	
15) The multiplicative time series model is:	1 point
$\bigcirc Y = T + S + C + I$	
○ Y= a + bX	
○ Y = a - bX	
$\bigcirc$ Y = T X S X C X I	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Y = TXSXCXI	





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