

ICS Part 2 Statistics Chapter 16 Online Test

Sr	Questions	Answers Choice
1	The secular trend is measured by the method of semi-averages when	A. time series contains yearly values B. trend is linear C. time series contains odd number of values D. none of these
2	The unsystematic sequence which follows irregular pattern of variations is called:	A. Noise B. Signal C. Linear D. Non-linear
3	Which one is a rough and crude method for measuring secular trend ?	A. free hand curve method B. semi average method C. moving averages method D. least square method
4	The multiplicative time series model is:	A. $Y = T + S + C + I$ B. $TSCI$ C. $Y = a + bX$ D. $Y = a + bX + cX^{2}$
5	Sum of squares of residuals is denoted by	A. $\sum e$ B. $\sum e^{2}$ C. $\sum e^{3}$ D. $\sum e^{4}$
6	The basic components of a time series are:	A. 2 B. 3 C. 4 D. 5
7	The trend values in freehand curve method are obtained by:	A. Equation of straight line B. Second degree parabola C. Signal D. Graph
8	The least squares estimates are unbiased estimates of the	A. statistic B. time series C. parameters D. variance
9	The secular trend is measured by the method of semi-averages when:	A. Time series contains yearly value B. Trend is linear C. Time series contains odd number of values D. None of them
10	In the measurement of secular trend the moving averages	A. give the trend in a straight line B. measure the seasonal variations C. smoothes out a time series D. measure irregular fluctuations
11	In time series seasonal variations can occur within a period of:	A. Nine years B. Four Years C. Three years D. One year
12	The equation of the quadratic (parabolic) trend is	A. $\hat{y} = a + bx$ B. $\hat{y} = a + by$ C. $\hat{y} = a + b\sum x + c\sum x^{2}$ D. $\hat{y} = a + bx + cx^{2}$
13	For a least squares line trend $Y = a + bx$, the b is the:	A. Intercept B. Slope C. Variable D. Trend
14	The sum of deviations $= \sum (y - \hat{y}) =$	A. 0 B. 1 C. 10 D. 1

15	In a straight line equation $Y = a + bX$; a is the:	A. X - intercept B. Slope C. Y- intercept D. None of them
16	For a least squares linear trend $\hat{y} = a + bx$, the $\Sigma(y - \hat{y})^2 = 0$ when	A. all the y-values lie on the line B. all the y-values are positive C. all the y-values lie above the line D. none of these
17	The graph of a time series is called	A. histogram B. polygon C. straight line D. historigram
18	Increase the number of patients in the hospital due to heel stock is:	A. Seasonal trend B. Secular trend C. Cyclical movements D. Irregular variation
19	The rise and fall of a time series periods longer than one- year is called.	A. Secular trend B. Seasonal variation C. Cyclical variation D. Irregular variation
20	Methods of semi-averages gives an	A. accurate result B. objective result C. authentic result D. none of these