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 sum of deviations=$\Sigma(y-\hat{y})$ =	A. 0 B. 1 C. 10 D. -1
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	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
5	For a least squares linear trend=$\hat{y}= a + b x$,	A. Σy <$\Sigma\hat{y}$ B. $\Sigma\hat{y} = 0$ C. $\Sigma y = \Sigma\hat{y}$ D. none of these
6	For a least squares line trend Y = a + bx, the b is the:	A. Intercept B. Slope C. Variable D. Trend
7	In the measurement of secular trend the moving averages:	A. Give the trend in a straight line B. Measure the seasonal variations C. Smooth out a time series D. None of these
8	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
9	The straight line is fitted to a time series when the movements in the time series are	A. linear B. quadratic C. cubic D. constant
10	The unsystematic sequence which follows irregular pattern of variations is called:	A. Noise B. Signal C. Linear D. Non-linear
11	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
12	The trend values in freehand curve method are obtained by:	A. Equation of straight line B. Second degree parabola C. Signal D. Graph
13	The systematic components of time series which follow regular pattern of variations are called:	A. Noise B. Signal C. Additive model D. Multiplicative model
14	For a least squares linear trend=$\hat{y} = a + bx$, b is the	A. variable B. intercept C. trend D. slope
15	The elimination or addition of a few more time periods may change its	A. speed B. value C. direction

		D. none of these
16	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
17	The graph of a time series is called	A. histogram B. polygon C. straight line D. historigram
18	For a least squares linear trend Y = a + bX	A. ΣY = ΣY B. ΣY = 0 C. ΣY > ΣY D. None of them
19	The method of least square gives too much weight to extremely large deviations from the	A. population B. parameter C. sample D. trend
20	The graph of time series is called:	A. Histogram B. Historigram C. Straight line D. Ogive