ICS Part 2 Statistics Chapter 16 Online Test

Sr	Questions	Answers Choice
1	The graph of time series is called:	A. Histogram B. Historigram C. Straight line D. Ogive
2	For a least squares line trend Y = a + bx, the b is the:	A. Intercept B. Slope C. Variable D. Trend
3	The graph of a time series is called	A. histogram B. polygon C. straight line D. historigram
4	A business cycle has	A. one phase B. two phases C. three phases D. four phases
5	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
6	For a least squares linear trend Y = a + bx, the $\Sigma(Y - Y)^2 = 0$ when:	A. All the Y-values are positive B. All the Y-values lie on the line C. All the Y-values lie above the line D. None of these
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	Methods of semi-averages gives an	A. accurate result B. objective result C. authentic result D. none of these
9	The elimination or addition of a few more time periods may change its	A. speed B. value C. direction D. none of these
10	For a least squares linear trend Y = a + bX	A. ΣY = ΣY B. ΣY = 0 C. ΣY > ΣY D. None of them
11	For a least squares linear trend=ŷ= a + b x,	A. Σy <Σŷ B. Σŷ = 0 C. Σy =Σŷ D. none of these
12	The additive model of the time series is:	A. Y = T + S + C + I B. TSCI C. Y = a + bX D. Y = a + bX + cX²
13	For a least squares linear trend ŷ = 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
14	The equation of the quadratic (parabolic) trend is	A. ŷ=a+bx B. ŷ=a+by C. ŷ=a+bΣx+cΣx² D. ŷ=a+bx+cx²
15	The sum of deviations=Σ(y-ŷ) =	A. 0 B. 1 C. 10

		D. -1
16	The trend values in freehand curve method are obtained by:	A. Equation of straight line B. Second degree parabola C. Signal D. Graph
17	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
18	In time series seasonal variations can occur within a period of:	A. Nine years B. Four Years C. Three years D. One year
19	The systematic components of time series which follow regular pattern of variations are called:	A. Noise B. Signal C. Additive model D. Multiplicative model
20	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