ICS Part 2 Statistics Chapter 16 Online Test

Sr	Questions	Answers Choice
1	The elimination or addition of a few more time periods may change its	A. speed B. value C. direction D. none of these
2	For a least squares linear trend=ŷ = a + bx, b is the	A. variable B. intercept C. trend D. slope
3	The least squares estimates are unbiased estimates of the	A. statistic B. time series C. parameters D. variance
4	The systematic components of time series which follow regular pattern of variations are called:	A. Noise B. Signal C. Additive model D. Multiplicative model
5	ŷ=a+bx, this line will be called least squares line if it makes=Σ(y-a-bx)2	A. maximum B. constant C. minimum D. variable
6	The graph of time series is called:	A. Histogram B. Historigram C. Straight line D. Ogive
7	The basic components of a time series are:	A. 2 B. 3 C. 4 D. 5
8	The method of least square gives too much weight to extremely large deviations from the	A. population B. parameter C. sample D. trend
9	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
10	Sum of squares of residuals is denoted by	A. ∑e B. ∑e² C. ∑e³ D. ∑e⁴
11	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
12	A business cycle has	A. one phase B. two phases C. three phases D. four phases
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 multiplicative time series model is:	A. Y = T + S + C + I B. TSCI C. Y = a + bX D. Y = a + bX + cX²

15	The unsystematic sequence which follows irregular pattern of variations is called:	A. Noise B. Signal C. Linear D. Non-linear
16	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
17	In moving average method, we cannot find the trend values of some:	A. Middle periods B. End periods C. Starting periods D. Between extreme periods
18	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
19	The trend values in freehand curve method are obtained by:	A. Equation of straight line B. Second degree parabola C. Signal D. Graph
20	The sum of deviations=Σ(y-ŷ) =	A. 0 B. 1 C. 10 D. -1