

ICS Part 2 Statistics Chapter 16 Online Test

Sr	Questions	Answers Choice
1	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
2	For a least squares linear trend $Y = a + bx$, the $\sum(Y - Y)^2 = 0$ 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
3	The additive model of the time series is:	A. $Y = T + S + C + I$ B. TSCI C. $Y = a + bX$ D. $Y = a + bX + cX^{sup>2</sup>}$
4	The trend values in freehand curve method are obtained by:	A. Equation of straight line B. Second degree parabola C. Signal D. Graph
5	The multiplicative time series model is:	A. $Y = T + S + C + I$ B. TSCI C. $Y = a + bX$ D. $Y = a + bX + cX^{sup>2</sup>}$
6	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
7	For a least squares linear trend $Y = a + bX$	A. $\sum Y = \sum Y$ B. $\sum Y = 0$ C. $\sum Y \neq \sum Y$ D. None of them
8	For a least squares line trend $Y = a + bx$, the b is the:	A. Intercept B. Slope C. Variable D. Trend
9	In a straight line equation $Y = a + bX$; a is the:	A. X - intercept B. Slope C. Y- intercept D. None of them
10	The systematic components of time series which follow regular pattern of variations are called:	A. Noise B. Signal C. Additive model D. Multiplicative model
11	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
12	In time series seasonal variations can occur within a period of:	A. Nine years B. Four Years C. Three years D. One year
13	The unsystematic sequence which follows irregular pattern of variations is called:	A. Noise B. Signal C. Linear D. Non-linear
14	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
15	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 these

D. None of them

16 The basic components of a time series are:

- A. 2
- B. 3
- C. 4
- D. 5

17 The graph of time series is called:

- A. Histogram
- B. Historigram
- C. Straight line
- D. Ogive