## SOLUTION OF WORKSHEET-20

## SUBJECT – **STATISTICS**

Term : PRE TEST

**Topic – TIME SERIES ANALYSIS**          **Class: XII**
**Full Marks: 15**          **Date:03.07.2020**

Q1.     Select the correct alternative of the following questions.

(i)     Number of techniques used to determine the future trend values  in time series *analysis is*
a) 1          b )2          c) 0          **d) none of these**

(ii)     Cyclicall  trend gives a cuve which is
**a) long term**          b) short term          c) both          d) none of these

(iii)     Seasonal trend gives a curve which is
**a ) oscillatory**          b) rotatory          c) both          d) none of these

(iv)     With which component of time series would you mainly associate increase in the sales of volley balls

a) secular trend          **b) seasonal variation** c) cyclical trend d) none of these

(v)     With which component of time series would you mainly associate bear phase of the sensex

a) secular trend          b) seasonal variation  **c) cyclical trend** d) none of these

(vi)     With which component of time series would you mainly associate increase in sales of television sets before World Cup Football competition.

a) secular trend          b) seasonal variation  **c) cyclical trend** d) none of these

(vii)     With which component of time series would you mainly associate delay in the workers' salary of a factory due to lock down due to Covid 19

a) secular trend          b) seasonal variation  c) cyclical trend **d) none of these**

(viii)   With which component of time series would you mainly associate sales by hawkers before puja in Kolkata

a) secular trend        **b) seasonal variation** c) cyclical trend d) none of these

(ix)    With which component of time series would you mainly associate withdrawals  in a bank during the months of a year.

a) secular trend        **b) seasonal variation** c) cyclical trend d) none of these

(x)     With which component of time series would you mainly associate price of disel after Umphan in West Bengal

a) secular trend        b) seasonal variation  c) cyclical trend d) **none of these**

(xi)    With which component of time series would you mainly associate cost of staying in resorts after Covid 19

a) secular trend        b) seasonal variation  c) cyclical trend **d) none of these**

(xii)   With which component of time series would you mainly associate sale of colures in kolkata

a) secular trend        **b) seasonal variation** c) cyclical trend d) none of these

(xiii)  Determination of secular trend is done by
**a) moving average method**                b) partly average method
c) average method                            d) none of these

(xiv)   By curve fitting method forecast can
a) not be done          **b) can be done**           c)can sometimes   d) none of these

(xv)    Harmonic mean ..... be used for the observations -3, -2, -1, 0, 1, 2
**a) can not**              b) can be                    c) both          d) noe of these

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