

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

Q.3 Discuss the meaning, use, advantage & disadvantages of statistical quality control.

Q.4 Briefly explain any two methods of time series. Mention their merits also.

Q.5 Explain the various types of index number, also explain any method of construction of index number.

Q.6 Calculate the coefficient of rank correlation:

x: 35 27 42 39 42 32 37

Y: 24 22 24 27 32 29 27

Q.7 Fit a straight line trend in the following data:

Year: 2008 2009 2010 2011 2012 2013 2014 2015

Sales: 08 12 09 13 15 11 10 14

(Cr.)

Estimate sales for the year 2016.

(140)

(4)

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2nd Sem. / FAA

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M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

Q.1 a) Define the term "Correlation"

b) Negative correlation

c) Cyclical variation

d) Define splicing.

e) Two uses of statistical quality control.

f) Define index number

g) Graphic method of time series analysis.

h) Two uses of control chart.

i) Irregular variation.

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- j) Weighted index number
- k) Two Merits of rank correlation method.
- l) Lower control limit.
- m) Explain regression Equation of Y on X .
- n) Chain index number
- o) Properties of regression coefficients.
- p) Non-linear Correlation.
- q) Time reversal test.
- r) Wholesale price index number.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Define Karl Pearson's coefficient of correlation.
 - ii) How scatter diagram useful in study correlation?

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- iii) Demerits of Spearman's rank correlation method.
- iv) Problems faced while Constructing index number.
- v) Explain utility of price index number.
- vi) Define simple and multiple correlation.
- vii) What do you mean by Control chart?
- viii) Limitations of Rank method of correlation.
- ix) Explain the factor reversal test.
- x) Importance of correlation.
- xi) Merits of scatter diagram.
- xii) Utility of time series analysis.
- xiii) Demerits of time series analysis.
- xiv) Meaning of index number.
- xv) What do you mean by regression line?

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