

9. Define measures of central tendency, dispersion, Skewness and Kurtosis. How these can help in analysis of frequency distribution? Explain with the help of an example. (10)
10. (a) Before an increase in excise duty on tea 400 people out of a sample of 500 persons were found to be tea drinkers. After an increase in the duty, 400 persons were known to be tea drinkers in a sample of 600 people. Do you think that there has been a significant decrease in the consumption of tea after the increase in the excise duty? (5)

(b) Two random samples were drawn from two normal populations and their values are:

A : 67 69 77 78 84 86 90 92 94

B : 66 67 75 79 84 88 89 94 96 97 99 (5)

11. (a) The Time-series given below shows the number of tables sold by a company since it started:

Years	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Tables Sold	50	56	67	80	99	120	135	148	156	150

Draw the time series curve

(5)

- (b) Distinguish between partial and multiple correlation and describe their usefulness in statistical analysis. (5)

Is there any significant diff between the means of these two samples at 5% level of significance?

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(2124)

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MBA 1st Semester Examination

Business Statistics (NS)

MBA-102

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : All questions are compulsory in Section A which carry two marks each. Attempt any four questions from Section B carrying five marks each and attempt any two questions from Section C which carry ten marks each.

SECTION - A

1. (i) Describe any two functions of statistics in brief.
- (ii) Distinguish between a population and a sample.
- (iii) What do you mean by measure of dispersion?
- (iv) Define 'quartiles' of a distribution.
- (v) Define independent events and dependent events.
- (vi) What are the properties of correlation coefficient?
- (vii) Define the term confidence interval.
- (viii) How do you interpret the values of 'a' and 'b' in the regression equation?
- (ix) What is binomial distribution?
- (x) What are zero-order, first-order and second-order coefficient? (10×2=20)

[P.T.O.]

