

(4)

Given correlation coefficient between advertisement expenditure and sales is 0.8.

Q.XII What do you mean by sampling ? Discuss the main types of sampling methods.

Q.XIII Write short notes on —

(a) Time series analysis

(b) t-test "

Total No. of Questions : 13

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M.B.A. (Ist Sem.) (F.T.) Examination-2013

QUANTITATIVE METHODS

Paper - CP-102

Time Allowed : Three Hours

Maximum Marks : 80 "

Section-A

Note : Answer any four questions from this section. Each questions carry 8 marks.

Q.I How many measures of central tendency are there ? Annotate in brief the inherent merits and demerits that are common to every measures of central tendency.

Q.II Which average do you consider to be the best and why ?

Q.III Comment on the following statement—
"mean and variance of a binomial distribution are 3 and 4".

Q.IV Find the probability that a leap year teleted at random will contain 53 sundays.

Q.V Distinguish between correlation and regression.

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Q.VI From the following data trace out the missing frequency, if its median is 27.5 and no of items is 50.

Marks	Frequency
0-10	4
10-20	?
20-30	20
30-40	?
40-50	7
50-60	3

Q.VII Write down the different formulae for calculating correlation coefficient and rank correlation coefficient.

Q.VIII Write short notes on skewness and kurtosis.

Section-B

Note : Answer any three questions from this section. Each questions carry 16 marks.

Q.IX In the paper of quantitative methods five students obtained the following marks—

Roll No. :	1	2	3	4	5
Marks :	8	12	4	6	15

(a) Compute the mean and the standard deviation of the marks.

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Contd.

(3)

(b) Revise the marks of the students to obtain the mean at 50 and standard deviation at 20.

Q.X What do you understand by fitting of binomial distribution. Fit a binomial distribution to the following distribution of 128 samples—

No. of defective items	No. of samples
7	1
6	7
5	23
4	30
3	35
2	19
1	6
0	7

Q.XI From the following data find—

(a) The likely sales when advertisement expenditure is 20 lakhs rupees.

(b) The likely expenditure on advertisement to make a sale of rupees 150 lakhs.

	Advertisement Expenditure (in lakhs Rs.)	Sales (in lakhs Rs.)
Mean	10	90
standard deviation	3	12

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P.T.O.